

CURRICULUM VITAE

HENERIKO PHILBERT KULEMBEKA

Curriculum Vitae



Heneriko P. Kulembeka

1. Personal particulars

Name	Heneriko Philbert Kulembeka
Date and place of birth	18/3/1964
Nationality	Tanzanian
Marital status	Married
Sex	Male
Proficiency in language	English and Kiswahili- Good
Contact address	TARI Ukiriguru P.O. Box 1433 Mwanza, Tanzania Tel. 255 732 980106 Mobile: 255 713 298773 Mobile: 255 767 298773 Fax 255 28 25501079 E-mail: kulembeka@yahoo.com ,

2. Educational background and professional training

Profession	Plant Breeder
Professional Education	<ul style="list-style-type: none">• PhD. Molecular Breeding, University of Free state, South Africa ; 2005 - 2010• MPhil. (Plant Breeding) Plant Breeding and Crop Improvement Specialisation: Birmingham University and University of Reading, United Kingdom, 1994 – 1996• B.Sc. (Agriculture)'- Crop Science Option: Sokoine University of Agriculture, Morogoro, Tanzania.1988 - 1990
Formal Education	<ul style="list-style-type: none">• Advanced level Education: Kibaha High School, Pwani, Tanzania, 1984 - 1986• Ordinary level Education: Milambo Secondary School, Tabora, Tanzania, 1980 - 1983

3. Professional experience

Actual position

Plant Breeder and Root and Tuber Crops Specialist and Administration (2011- to date)	Summary of work experience: <ul style="list-style-type: none">▪ Ag. Center Director, TARI Ukiriguru, overall leader of research and Administration at Ukiriguru research center
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Variety Releases	<ul style="list-style-type: none"> ▪ National Coordinator Root and Tuber Crops Research Programme in Tanzania ▪ In charge of research on root and tuber crops breeding activities. Some of the activities include development of new cassava and sweet potato varieties, screening the varieties against major diseases and pests, evaluation and selection for yield and qualities, testing the varieties for adaptation to different agro-ecologies, testing the varieties on-farm, NPT and official release , multiplication and dissemination as well as promotion of value addition products etc. ▪ Multiplication and dissemination of cassava and sweet potato planting materials ▪ Post harvest and value addition of cassava and sweet potato ▪ Solicit funding for root and tuber crops research and development ▪ Technology transfer to stakeholders on root and tuber crops ▪ Disseminate ofroot and tuber crops research findings to to wide community ▪ Monitoring and evaluation of research and project activities <p>November – December 2019</p> <p>Spearheaded the release of nine cassava varieties Four varieties <i>Kiroba, Kizimbani, Mkumba and Mkuraga1</i> released in November 2019. Five varieties <i>TARICASS1, TARICASS2, TARICASS3, TARICASS4 and TARICASS5</i> released in December 2019.</p> <p>2012</p> <p>Participated in evaluation an release of four cassava vrieties that were selected through Marker Sesisted Selection (MAS) from the cross of Tazania CBSD resistant/tolerant casava clones and CIAT imported clones that were CMD resistant. The varieties are <i>Mkumba, Pwani, Dodoma and Makutopora</i></p> <p>2010</p> <p>Initiated the importation and evaluation of more than 200 cassava clones from Selele, Uganda and was part of the team which lead to the release of 8 cassava varieties in the Lake Zone of Tanzania. The varieties are <i>Belinde, Kasala, Kibaya, Mkombozi, Merermeta, Rangimbili, Nyakafuru, Suma,</i></p> <p>2000</p> <p>Sperheaded the release of five sweet potato varieties namely <i>Jitihada, Mavuno, Simama, Sinia B and Vumilia</i></p>
Experience with funded projects	<p>2021 to 2024</p> <p>National Coordinator of Strengthening Food Security, Empowering Communities, Improving Livelihoods through cassava seed production (<i>Muhogo Bora- Better Cassava</i>)</p> <p>2016 to 2022:</p> <p>National Projector co-ordinator of Next Generation Cassava Breeding (NEXTGEN Cassava) Project, funded by Bill and Melinda Gates Foundation through the Cornell University, 2016 to 2022. Collaborators are Cornell University, International Institute of Tropical Agriculture (IITA), CIAT, National Root Crops Research Institute (Nigeria), National Crops Resources Research Institute (NaCRRl Uganda), International Center for Tropical Agriculture (CIAT- Colombia. This project is training heree PhDs and one MSc. It has contributed to purchase of two tractors and their implements and one Pick Up Vehicle.</p> <p>2017 to 2021</p> <p>National Projector co-ordinator of Building Economically Sustainable Cassava seed production in Tanzania (BEST</p>

	<p>Cassava) project funded by Bill and Melinda Gates Foundation through MEDA. Collaborators are Mennonite Economic Development Associates (MEDA) and IITA</p>
2013 to 2016:	<p>Collaborator of the Biotechnology applications to combat Cassava brown streak disease (CBSD) project, funded by Bill and Melinda Gates Foundation, 2009 – 2012. Collaborating institutions: International Institute of Tropical Agriculture (IITA) and NARS from Uganda and Tanzania.</p>
2012 to 2014	<p>Limiting the impact of Cassava Brown Streak Disease on smallholders, women and the cassava value chain in Central and Eastern African region currently affected by Cassava Brown Streak Disease. Collaborating Institution Natural Resource Institute and NARS of Kenya, Malawi and Tanzania. Funded by African Development Bank.</p>
2011 to 2012:	<p>Collaborator for NARS from Tanzania for international project on “Improved Cassava Productivity and Utilization in Eastern and Central Africa”. Collaborating institutions: Association for Strengthening Agricultural Research in Eastern and Central Africa (ASARECA), International Institute of Tropical Agriculture (IITA), and NARS from Kenya, Tanzania, Uganda, Rwanda, DR Congo, Madagascar, Sudan, Eritrea, Ethiopia and Burundi. Donor: USAID.</p>
2010 to 2014	<p>Cassava value Chain Development in the Lake Zone (Sengerema, Kwimba, Ukerewe, Bunda districts). Funded by 2002 to 2004 IFAD but funds channelled through Muunganisoo wa Ujasiriamali Vijijini (MUVI) program coordinated by SIDO</p>
2011 to 2012	<p>Collaborator for NARS from Tanzania for international project on “A Cassava Breeding Community of Practice in Africa for Accelerated Production and Dissemination of Farmer Preferred Cassava Varieties Resistant to Pests and Diseases”. Collaborating institutions: International Centre for Tropical Agriculture (CIAT), International Institute of Tropical Agriculture (IITA), and NARS from Tanzania, Uganda, Ghana and Nigeria. Donor: Generation Challenge Program (GCP).</p>
2009 to 2012:	<p>Collaborator of the Biotechnology applications to combat Cassava brown streak disease (CBSD) funded by Bill and Melinda Gates Foundation, 2009 – 2012. Collaborating institutions: International Institute of Tropical Agriculture (IITA) and NARS from Uganda and Tanzania.</p>
2008 to 2010	<p>Up scaling of cassava processing and utilisation techniques in the Lake Zone, working with Farmer Groups. Funded by ZARDEF</p>
2004 to 2009:	<p>Lead Plant Breeder for international project on “Molecular Marker Assisted and Farmer Participatory Improvement of Cassava Germplasm for Farmer/Market Preferred Traits in Tanzania”. Collaborating institutions: IITA, CIAT and NARS from Tanzania. Donor: Rockefeller Foundation.</p>
1998 to 2004:	<p>Involved in Cassava Mosaic Disease Pandemic mitigation in Lake</p>

	Zone of Tanzania; a project funded by Office for Disaster Assistance (OFDA). Collaborating institutions were International Institute of Tropical Agriculture (IITA and NARS from Kenya, Rwanda, Burundi, Kenya, Tanzania and Uganda.

Previous positions

<p>Ag. National Co-ordinator: Root and Tuber Crops Research Programme (1992-1994)</p>	<p>Summary of work experience :</p> <ul style="list-style-type: none">▪ Coordination of root and tuber crops research in the country through coordinating meetings and other correspondences▪ Coordination of multiplication and dissemination of planting materials to stake holders▪ Coordination of postharvest and value addition activities in the lake zone▪ Linking root and tuber crops research with other national and international research institutions/organisations e.g. IITA, CIP, CIAT etc▪ Linking root and tuber crops research with other stakeholders farmers, particularly Extension, CBOs, NGOs▪ Country national Coordinator, South African Root Crops Research Network (SARRNET)▪ Represented the country in various steering committee meetings▪ Co-ordinated the establishment of the regional office of Southern Africa Root Crops Research Network (SARRNET) in Tanzania.
<p>Editor/Co-editor</p>	<ul style="list-style-type: none">▪ Proceedings of the workshop on Plant breeding and Biodiversity, ARI Ukiriguru, Mwanza, Tanzania. May, 1999▪ Proceedings of the workshop on inventory of sweet potato extension messages, ARI Ukiriguru, Mwanza, Tanzania. December 1999.▪ Proceedings of the workshop on Integrated Pest Management, ARI Ukiriguru, Mwanza, Tanzania, January, 2001.▪ Proceedings of the 2nd workshop on Integrated Fertility Management, ARI Ukiriguru, Mwanza, Tanzania, October 5- 6, 2001.

Courses and workshops attended

<p>Special courses</p>	<ul style="list-style-type: none"> • Regional training workshop on cassava and sweet potato breeding held at Kibaha Sugar Research Institute, Kibaha, Tanzania, August 25 – 30 1997. • Sweet potato and Cassava training visit conducted in various places in Kenya and Uganda, 14th – 25th November 1997. • Training course in Computer data analysis held at ARC –Roodeplaat, VOPI, Pretoria, South Africa, 20th – 31st October 1997 • International laboratory course on application of biotechnology to plant breeding and crop protection in coconut, conducted at ARI Mikocheni, Dar es Salaam, Tanzania, August 18th – 28th 1998. • Socio-economic Training Workshop on Partial Budgeting held at Ukiriguru in Mwanza, Tanzania, 1999. • UNESCO Fellowship on Plant Biotechnology held at ARC - Roodeplaat, Pretoria in South Africa, March 20th - 16th June 2000. • Professional Development Programme course on Agricultural Research, Project Formulation, experimental Designs, Data Analysis and Scientific Report Writing skills, held at Sokoine University of Agriculture, 11th November – 13th December • National Training Course in Farming Systems Approach held in Morogoro, Tanzania 31st March– 11th April 2003 • Regional Training Workshop on Monitoring and Evaluation of Projects held in Arusha, Tanzania, 1st – 5th December 2003 • Molecular Breeding Training Program held at the Biosciences eastern and Central Africa (BECA), Nairobi, Kenya, 28th –Nov – 18th December 2004. • Advanced Cassava Breeding course for NARS Breeders from Africa held at CIAT, Colombia, 11 April – 7 May 2005 • Diversity data analysis course, ILRI, Nairobi, Kenya, June, 7 -10, 2008 • Genetic Linkage mapping data analysis, BecA, Nairobi, Kenya, 4- 8 August, 2009. • Technical research paper training workshop, ILRI, Addis Ababa, Ethiopia, 14-19, November 2010. • African Plant Breeding Academy, a six-week course for African Plant Breeders organised by University of California Davis in collaboration with NEPAD, World Agroforestry, MARS; ICRAF centre, Nairobi Kenya, 14-26 May 2017, 26-09 November 2017 and 13-26 May 2018.
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Workshops and conferences attended

- Cassava mosaic Disease workshop on the control of cassava mosaic disease epidemics held at Colline Hotel, Mukono, Uganda, 8th – 25th March 1994
- East and Southern Africa Research Conference Steering Committee meeting held in Kampala, February 28- March 3rd 1994.
- Southern Africa Root Crops Research Network Steering Committee Meeting held in Lilongwe, Malawi, 20th - 27th April 1994.
- Regional workshop for the conservation and utilisation of cassava, sweet potato and yams germplasm in Sub- Sahara Africa, held in Nairobi, Kenya 11th – 14th 1997.
- International workshop on The application of biotechnology to plant breeding and crop protection in coconut, conducted at ARI Mikocheni, Dar es Salaam, Tanzania, August 15th – 17th 1998
- Emergence meeting to combat cassava mosaic disease (CMD) pandemic held at ARI Ukiriguru, Tanzania, November 25th 1998.
- International workshop on cassava mosaic disease management in smallholder cropping systems, Jinja, Uganda, December 7th – 9th 1998
- National workshop on Plant breeding and Agro-Biodiversity held at ARI Ukiriguru, Mwanza, Tanzania, May 4th – 5th 1999.
- National workshop on inventory of cassava extension messages held at ARI Ukiriguru, Mwanza, Tanzania, July 22nd - 23rd 1998.
- Second SARRNET scientific workshop on root and Tuber Crops held at Taj Pamodz Hotel, Lusaka, Zambia May 19th – 22nd 2003.
- 13th Triennial International Society for Tropical Root and Tuber Crops Symposium 9(ISTRC) held at Arusha International Conference Center in Arusha, Tanzania, 10th – 14th November 2003
- Sixth international scientific Meeting of the Cassava Biotechnology Network held at CIAT, Cali, Colombia, 8 – 14 th March 2004.
- Cassava Viruses Proposal writing Workshop for USAID-RCSA held at Lilongwe Hotel, Lilongwe, Malawi, 4th – 6th October 2004
- 2nd General meeting of the Rockefeller Foundation supported program on Biotechnology, Breeding and Seed Systems for Africa held at Safari Park Hotel, Nairobi, Kenya, 24th - 27th January 2005.
- Regional meeting on establishing of Breeders Network to accelerate breeding of locally adapted cassava varieties in Eastern and southern Africa held at Imperial Botanical Beach Hotel, Entebbe, Uganda, 18th 20th October 2005.
- Generation Challenge Programme Annual Research Meeting held at Kopanong Hotel and Conference Center, Benoni, South Africa, 12-16 September 2007
- Genotyping Support Service workshop held at IAMZ, Zaragoza, Spain, 24-28 September 2007
- 3rd General meeting of the Rockefeller Foundation supported program on Biotechnology, Breeding and Seed Systems for Africa held at Chisano Conference Center, Maputo, Mozambique, 26th - 29th March 2007

Computer skills	Operating Systems – Windows Word Processing – MS Word 2003, 2007, 2010, Power Point 2010 Spread sheet – MS Excell 2003, 2007, 2011, MS Access 2007 Statistical packages – Genstat, Agrobase, JoinMap4, MapQTL6 Web Browsing
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4. Publications

- Marie Thro, A, M. Msabaha, **H. Kulembeka**, W. Shengero, A. Kapande, N. Mlingi, L. Hemmed, P. Digges and J. Copley. 1993. Village perspectives on cassava and implications for biotechnology research. A Case Study in the Lake Zone of Northern Tanzania. Cassava Biotechnology Network (CBN) and International Center for Tropical Agriculture (CIAT).
- Thro, A.M, J. K. Lynam, M. Msabaha, **H. Kulembeka**, W. Shengero, A. Kapande, N. Mlingi, L. Hemed, P. Digges and J. Copley. 1995. From Village Concerns to National Priorities: Using the results of a case study with cassava farmers in the Tanzanian Lake Zone, East and Southern Africa.: Pages 114 - 123 in: Turning Priorities into Feasible Programs: Proceedings of a Seminar on Planning, Priorities and Policies for Agricultural Biotechnology. South Africa, 23-28 April, 1995. Edited by J. Komen, J.I. Cohen and Z. Ofir. The Hague / Pretoria: Intermediary Biotechnology Service / Foundation for Research Development.
- **Kulembeka, H.P.** 1995. Quantitative variation in Tobacco (*Nicotiana rustica*). A dissertation presented to the Faculty of Science of The University of Birmingham in partial fulfillment of the requirements for the Degree of Master of Philosophy in Plant Breeding and Crop Improvement. School of Biological Sciences, Faculty of Science, Birmingham, UK. September 1995.
- **Kulembeka, H.P.** 1996. The effect of salinity on shoot growth and tuber yield of Potato (*Solanum tuberosum* L). A dissertation presented to the Faculty of Agriculture and Food of The University of Reading in partial fulfillment of the requirements for the Degree of Master of Philosophy in Plant Breeding and Crop Improvement. School of Plant Sciences, Department of Agricultural Botany, Reading, UK. September 1996.
- **Kulembeka H.P**, N.M. Mahungu, C.K. Rugutu, S.M. Tollano and M.H. Massawe. 1998. Leaf retention as a means of screening cassava for drought resistance. In Proceedings of the scientific workshop on the role of cassava and sweet potato held at Pamodz Hotel in Lusaka Zambia. August 17th – 19th 1998.
- Mahungu N.M., **H.P. Kulembeka**, E. Kanju, S.M. Tollano and M.H. Massawe. 1998. Screening cassava seedlings for resistance against cassava brown streak disease. In Proceedings of the scientific workshop on the role of cassava and sweet potato held at Pamodz Hotel in Lusaka, Zambia. August 17th – 19th 1998.
- Jeremiah S.C and **H.P Kulembeka**. 1998. Status of cassava production in Tanzania. In Proceedings of the International workshop on cassava mosaic disease management in smallholder cropping systems held in Jinja, Uganda, December 7th – 9th 1998.

- **Kulembeka, H.P.** 1999. Cassava improvement: breeding perspectives in the Lake Zone of Tanzania In Proceedings of the Breeding and Agro-Biodiversity Workshop held at ARI Ukiriguru, May 4-5th 1999
- Fregene, M.A, M.Suarez, J.Mkumbira, **H.Kulembeka**, E.Ndedya, A.Kullaya, S. Mitchel, U.Gullberg, H.Rosling, A.G.O Dixon, R.Dean and S. Kresovich. 2003. Simple Sequence Repeat Marker Diversity in cassava landraces: Genetic Diversity and Differentiation in an asexually propagated crop. *Theor and Appl Genet* 107: 1083 - 1093
- **Kulembeka, H.P**, C.K Rugutu, E.Kanju, B. Chirimi, E. Rwiza and R. Amour. 2003. The agronomic performance and acceptability of orange-fleshed sweet potato varieties in the Lake zone of Tanzania. *African Crop Science Journal*, 12(3): 229 – 240
- Masumba, E.A, **H. Kulembeka**, S.M Tollano and M. Yongollo. 2003. Participatory evaluation of improved sweet potato varieties in the Eastern Tanzania. *African Crop Science Journal*, 12(3): 259 - 265
- Jeremiah S.C and **H. Kulembeka**. 2003. Screening of local cassava varieties against new strain of geminivirus in cassava mosaic disease pandemic areas. Paper Presented at the Thirteenth triennial Symposium of the International Society for Tropical Root Crops held at the Arusha International Conference Centre in Arusha, Tanzania
- Kullaya A.; K. Mtunda; **H. Kulembeka**; M. Ferguson; J. Marin; C. Ospina; E. Barrera; A. Jarvis; N. Morante; H. Ceballos; Tohme J; M. Fregene (2004) Molecular marker-assisted and farmer participatory improvement of cassava germplasm for farmer/market preferred traits in Tanzania In: Alves and Tohme (eds). Adding Value to a Small-Farmer Crop: Proceedings of the Sixth International Scientific Meeting of the Cassava Biotechnology Network. 8-14 March 2004, CIAT, Cali Colombia. Book of Abstracts Pp70.
- **Kulembeka, H.P**, E. Masumba, M. Labuschagne ,L. Herselman, M.Ferguson, A. Kullaya, and M. Fregene. 2007. Towards the development of molecular markers for Cassava Brown streak Disease resistance. Presentation at the 3rd General meeting of the Rockefeller Foundation supported program on Biotechnology, Breeding and Seed Systems for Africa held at Chisano Conference Center, Maputo, Mozambique, 26th - 29th March 2007
- **Kulembeka, H.P.**, A. Kullaya, E. Masumba, M. Labuschagne, M. Ferguson and M. Fregene. 2005. Genetic diversity of germplasm susceptible and resistant to cassava brown streak disease. In: *Research and products development that reaches farmers*, pp. 54. Proceedings of the second general meeting on biotechnology, breeding and seed systems for African Crops, Rockefeller Foundation, January, 24-27, 2005, Nairobi, Kenya.
- **Kulembeka, H.P**, E. Masumba, M. Labuschagne, L. Herselman, M. Ferguson, A. Kullaya, and M. Fregene. 2007. Towards the development of molecular markers for cassava drown streak disease resistance. In: van Houten, H., K. Tom and V. Tom-Wielgoz (Eds.); *Research and products development that reaches farmers*, Proceedings of the second general meeting on biotechnology, breeding and seed systems for African crops. pp.105. Rockefeller Foundation, March, 104-105, 2007, Maputo, Mozambique.
- **Kulembeka, H.P**; M. Ferguson, E. Kanju, L. Herselman, M.T. Labuschagne;, G. Mkamilo and M. Fregene. 2008. Progress in determining the genetic basis and genetic linkage mapping of cassava brown streak disease resistance in Tanzania. In: *Cassava: Meeting the challenges of the new millennium*, Book of abstracts, pp. 49. First scientific meeting, of the

global cassava partnership, GCP-1. Institute of Plant Biotechnology for Developing Countries (IPBO), University of Ghent, 21-25 July 2008, Ghent Belgium.

- **Kulembeka, H.P. 2010.** Genetic linkage mapping of field resistance to cassava (*Manihot esculenta* Crantz) landraces from Tanzania. PhD Thesis University of Free State, Bloemfontein, South Africa
- Rabbi, Y.I; **H.P. Kulembeka**, E. Masumba, P. Marri and M. Ferguson. 2011. An EST-derived SNP and SSR genetic linkage map of cassava (*Manihot esculenta* Crantz) Theor Appl Genet 125: 329-342.
- **Kulembeka, H.P;** M. Ferguson, L. Herselman, M.T. Labuschagne, E. Kanju, G. Mkamilo and M. Fregene. 2011. Diallel analysis of field resistance to cassava brown streak disease in cassava (*Manihot esculenta* Crantz) landraces from Tanzania. Submitted to Euphytica
- *International Cassava Genetic Map Consortium (ICGMC, G3). 2015.* High resolution linkage map and chromosome scale Genome Assembly for cassava (*Manihot esculenta* Crantz) from 10 populations. *Genetics* 5:133-144
- Karen E. Hotkanson, Norman C. Elistrand, Alfred G. O. Dixon, Heneriko P. Kulembeka, Kenneth M. Olsen and Alan Raybould. 2015. Risk assessment of gene flow from genetically engineered virus resistant cassava to wild relatives in Africa: an expert panel report. *Transgenic Research*: 24 (6): [DOI 10.1007/s11248-015-9923-3](https://doi.org/10.1007/s11248-015-9923-3)
- Hillocks.R, M. Maruthi, **H.Kulembeka**, S. Jeremiah, F. Alacho, E. Masinde, J. Ogendo, P. Arama, R. Mulwa, G. Mkamilo, B. Kimata, D. Mwakanyamale, A. Mhone and I. Benesi. **2016** *Disparity between Leaf and Root Symptoms and Crop Losses Associated with Cassava Brown Streak Disease in Four Countries in Eastern Africa.* *Journey of Phytopathology* [Doi:10.1111/jph.12430](https://doi.org/10.1111/jph.12430)
- Masumba E. A., Kapinga F., Mkamilo G., Salum K., **Kulembeka H.**, Rounsley S., Bredeson J. V., Lyons J. B., Rokhsar D. S., Kanju E., Katari M. S., Myburg A. A., van der Merwe N. A. and Ferguson M. E., **2017**, QTL associated with resistance to cassava brown streak and cassava mosaic diseases in a bi-parental cross of two Tanzanian farmer varieties, Namikonga and Albert. *Theoretical Applied Genetics*, 1-22. [[Doi: 10.1007/s00122-017-2943-z](https://doi.org/10.1007/s00122-017-2943-z), [ISSN: 0040-5752](https://www.issn.org/ISSN/0040-5752)].
- Silver Tumwegamire, Kiddo Mtunda, Titus Alicai, Edward Kanju, Karoline Sichelwe, Gerald Adiga' Theresia Munga, George Ngundo, Deogratius Mark, Elijah Ateka, James Legg, **Heneriko Kulembeka**, Innocent Ndyetabura, Haji Salehe, Robert Kawuki, Ibrahim Benesi, Lynet Navangi, Maureen Mwangangi, Rudolph Shirima, Albert Mhone, Salehe Kombo, Anabela Zacarias, Midatharahally Narasegowda Maruthi, Edward Mbugua, Joseph Ndunguru, Geoffrey Mkamilo, Sofrimento Fenias Matsimbe, Francis Mwatuni, Cyprian Rajabu. **2018.** Exchanging and managing in-vitro elite germplasm to combat Cassava Brown Streak Disease (CBSD) and Cassava Mosaic Disease (CMD) in Eastern and Southern Africa. *Food Security* <https://doi.org/10.1007/s12571-018-0779-2>
- Mohamed Somo, **Heneriko Kulembeka**, Kiddo Mtunda, Emmanuel Mrema, Kasele Salum, Marnin D. Wolfe¹, Ismail Y. Rabbi³, Chiedozi Egesi³, Robert Kawuki⁴, Roberto Lozano¹, and Jean-Luc Jannink. 2019. Genomic prediction and QTL discovery in training population constructed from cassava clones at different breeding stages. *Crop Science*. [DOI:10.1002/csc2.20003](https://doi.org/10.1002/csc2.20003)

- Rudolph Shirima, Daniel Maeda, Silver Tumwegamire, Geoffrey Mkamilo, Kiddo Mtunda, **Heneriko Kulembeka**, Innocent Ndyetabula, Bernadetha Kimata, GLORIA CEASAR, Edda Mushi, Caroline Sichalwe, Edward Kanju, Dwasi Matondo. 2020. Genotype by environment variety evaluation for cassava brown streak disease resistance in Tanzania. *Virus Research*: 286: <https://doi.org/10.1016/j.virusres.2020.198017>
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- E. E. Kanju, Mushi, E., Legg, J.P, **Kulembeka, H.**, Masumba, E., Mtunda, K., Tumwegamire, S., Muthoni, F., Ndalaha, M., Kapinga, R²., Dieng, I⁸., and Shirima, R. 2020. Varietal response of cassava root yield components and root necrosis from Cassava Brown Streak Disease to season of planting in Tanzania. **In press**

B. Extension and training material

- Rapid multiplication of cassava planting materials: A Training Manual to guide extension staff and farmers. ARDI, Ukiriguru, Box 1433, Mwanza, Tanzania.
- Rapid multiplication of sweet potato planting materials: A Training Manual to guide extension staff and farmers. ARDI Ukiriguru, Box 1433, Mwanza, Tanzania.
- “Control of Cassava mosaic virus disease using resistant varieties” Leaflet, ARDI Ukiriguru, Box 1433, Mwanza, Tanzania.
- Development of cassava Processing centres in Lake Zone, Training Manual, ARDI Ukiriguru, Box 1433, Mwanza, Tanzania.
- Rapid multiplication of cassava planting materials, A Leaflet, ARDI Ukiriguru, Box 1433, Mwanza, Tanzania.
- Rapid multiplication of sweet potato planting materials, A Leaflet, ARDI Ukiriguru, Box 1433, Mwanza, Tanzania.
- Feed on orange-fleshed sweet potato varieties to combat Vitamin A deficiencies, A Leaflet, ARDI Ukiriguru, Box 1433, Mwanza, Tanzania.
- Grow Yams for food security, A Leaflet, ARDI Ukiriguru, Box 1433, Mwanza, Tanzania.