

CURRICULLIUM VITAE

Name: Dr. Ntawuruhunga Pheneas

Cassava Breeder at the IITA Southern Africa Regional Hub

He graduated in 2000 from Makerere University with Ph.D. in Agronomy majoring in crop breeding. In 1992, he obtained a Master of Science in Agronomy majoring in breeding at University of Ibadan, Nigeria. 1987: He obtained the Agricultural Engineer's Degree in General Agricultural Science, National University of Rwanda. 1983: Diploma in Agronomy at the National University of Rwanda, Rwanda

He started working with the "Institut des Sciences Agronomiques du Rwanda" (ISAR) and become the national team leader the cassava national programme in 1989 where he developed, released and promoted pest and diseases resistant highly yielding varieties. In 2001, he joined IITA team at the East and Southern Africa Regional Research Centre (ESARC) in Uganda to mitigate the cassava mosaic disease (CMD) by developing and deploying resistant cassava materials in the region. From 2004 to 2008, he was the Regional Coordinator of the Eastern Africa Root Crop Research Network (EARRNET) implemented by IITA in collaboration with the Association for Strengthening Agricultural Research in Eastern and Central Africa (**ASARECA**) working with the National Agricultural Research Systems (NARS) of the ten countries of the region. He contributed to the development and release of different CMD resistant varieties in Burundi, DRC, Madagascar, Ethiopia, Kenya, Southern Sudan, and Uganda. In 2005. he initiated the screening work for cassava brown streak (CBSD) resistance in Uganda where the disease was spreading for the first time in the high land altitude. From 2008 to 2011 he was the Regional Coordinator of the Southern Africa Root Crops Research Network (SARRNET) and strengthening the regional cassava breeding in the SADC region. From 2012 up to date he is the cassava breeder of the IITA Southern Africa Regional Hub.

He has acquired a lot of experiences in designing projects programs, coordination/leadership in the implementation of project activities and in monitoring milestones towards achieving projects objectives. He has helped to develop, implement, and establish participatory variety selection approach working through Innovation Platforms designed to link farmers with markets along the value chain to facilitate technologies adoptions. Pheneas has a broad experience in breeding and agronomy of cassava as well as in capacity building and partnership development. He developed or in partnership with colleagues and won different projects. He has supervised MSc and Ph.D. students in collaboration with different universities, UNZA included.

He is a member of the International Society for Root and Tubers Crops -Africa Branch (ISTRC-AB) since 1988. He is current the Secretary General of ISTRC-

AB, the position for which he was elected for two consecutive terms: (2013-2016) and (2017-2020)

Recently nominated the Team Leader of the Cluster (*CA2.3: Added value cassava varieties*) of the Root Tuber and Banana (RTB) program under the CGIAR Crops Research Program (CRP).

Details:

- 2004-2007:** Regional Coordinator of the Eastern Africa Root Crops Research Network (EARRNET), ASARECA network implemented by IITA. Main duties as coordinator were to facilitate and coordinate all the activities of the EARRNET in Burundi, Democratic Republic of Congo, Ethiopia, Kenya, Madagascar, Southern Sudan, Rwanda, Uganda and Tanzania.
- 2008:** Cassava breeder based at IITA-Uganda and at the same time consultant for CRS in the Great Lake Cassava Initiative (GLCI) Project implementing the participatory variety selection component in the six countries of Burundi, DRC, Kenya, Rwanda, Tanzania and Uganda.
- 2009 to 2013:** SARRNET Regional Coordinator in SADC region and Cassava Breeder
- 2014 to date:** Regional cassava breeder, coordinating different cassava project developments

Education:

- 2000: PhD, Agronomy (Breeding), University of Makerere, Kampala, Uganda
- 1992: MSc, Agronomy, University of Ibadan, Nigeria
- 1987: Agricultural Engineer's Degree in General Agricultural Science, National University of Rwanda, Rwanda
- 1983: Diploma in General Agronomy, National University of Rwanda, Rwanda

Positions Held:

- 1988-1990 :** Researcher, Root Crops National Programme, Institut des Sciences Agronomiques du Rwanda (ISAR), Rwanda
- 1990-1991:** MSc at University of Ibadan in collaboration with IITA
- 1992-1994:** Team leader of the Rwanda Cassava National Program
- 1994-1995:** Consultant, "Seeds of Hope" Project, International Institute of Tropical Agriculture (IITA/ESARC), Uganda
- 1996- 2000:** **PhD Student**
- 2001- 2003:** **IITA Consultant with the following responsibilities**
- Assist the IITA -Uganda cassava breeding program in the developing germplasm for the region
 - Provide backstopping to the team of cassava program in the Republic of Congo, Brazzaville
 - Develop a cassava project for Republic of Congo and assist in the restoring the cassava national program

- Lead the diagnostic survey on the cassava mosaic disease in the country

2004-2007: Regional Coordinator of the Eastern Africa Root Crops Research Network (EARRNET), ASARECA network implemented by IITA.

My main duties as coordinator are to facilitate and coordinate all the activities of the EARRNET in Burundi, Democratic Republic of Congo, Ethiopia, Kenya, Madagascar, Southern Sudan, Rwanda, Uganda and Tanzania. Specifically:

- To ensure that all guidelines issues by ASARECA Committee of Directors (CD) with regard to the planning, implementation and reporting of the Network activities are adhered to.
- To ensure that all functions of the network, as decided by the CD and/or stipulated in the ASARECA Bylaws are carried out.
- To coordinate the research and the scientific information gathering activities envisaged to be carried out by the network, with particular emphasis on the maintenance of high-quality standards.
- To help members of the network to obtain, and disseminate information, and to provide such information as necessary to other ASARECA stakeholders.
- To assist participating partners in the preparation of progress reports and in the publication of their results.
- To organize internal monitoring and evaluation of the network activities.
- To monitor programme implementation and to compile for the Executive Secretariat and the CD, monthly reports of the networks as well as quarterly.
- To prepare and organize network meetings, field visits, workshops and seminars training courses for capacity building, as well as peer reviews of new activities, in accordance with network plans and budgets as approved by CD and authorized by the Executive Secretariat
- To maintain contact with relevant professionals, national institutions, IARCs, regional and international research institutions.
- To keep the Executive Secretary and the ASARECA CD fully informed of all relevant happenings and
- To undertake such other tasks in pursuit of the terms of reference of the network or objectives of ASARECA.
- Provide technical backstopping of the NARS cassava program projects of the above countries
- Assist country programs in designing proposals for Competitive grant System of ASARECA and other donors.
- To strengthen partnerships between IITA, CRS, NARS, Privates, Farmers Groups, ASARECA, NGOs, and Ministries of Agriculture

2008

Scientist cassava breeder and Consultant for Catholic Relief Services (CRS) in the Great Lake Cassava Initiative (GLCI) and cassava breeder with the following responsibilities

- Develop and screen germplasm resistant to the major pest and diseases with agronomic characteristics preferred by end-users
- Establish regional training plan and budget for PVS

- Ensure that annual detailed action plans and budgets are established for PVS in line with the project documents and budget, in each participating country at the appropriate time of each year
- Develop best modules/guidelines for PVS in English and French
- Ensure that all training modules are adapted (language, style and format) for applicability to different target areas
- Identify and train NARS partners in each country for PVS establishment and implementation
- Ensure the identification of appropriate skills farmers groups for PVS
- Ensure that “best bet” varieties for PVS trials are accessed for selected Agro ecological Zones in target areas in each country
- Ensure that the NARS monitor and support PVS trials
- Ensure that the NARS share results of PVS trials with local stakeholders
- Participate in the regional workshops
- Facilitate annual learning alliance sessions for PVS with NARS and CPMs
- Monitor and report PVS progress reports in each country (2 visits per country in years one and two, one visit per country in years 3 and 4) and
- Ensure the publication and sharing of the results with local stakeholders including GLCI local NGO partners and farmers

2009 to 2013: SARRNET Coordinator/ Cassava Breeder and partially consultant to GLCI project

IITA has been involved in the leadership of SARRNET for many years. It is an important root and tuber network for many years in Southern Africa. The main focus for SARRNET was to develop cassava sub sector along the value chain. The role of the coordinator was:

- Coordinate the SARRNET network of countries, including developing long term strategy or plans, development/approval of annual workplan/budget plans, monitoring and evaluation of technical and financial activities, organization and facilitation of joint workshops or meetings, representation of IITA/SARRNET as needed, resource mobilization for SARRNET, capacity building for SARRNET as needed, and any other business as needed to insure the success of the network.
- Establish and strengthen the cassava breeding program with a focus on improved productivity, adaptation, and consumer/industrial acceptability within the middle Altitude agro-ecology. This included germplasm evaluation, crossing, selection, and multiple locations testing of advanced and elite breeding material. It was done in collaboration with the cassava breeder in Malawi, our host Institute. The collaboration was extended to other IITA cassava breeders, other CG Centers, NARS, ARI, and other private partners as appropriate.
- Contribute to the testing and promotion of yams and other root crop germplasm in Southern Africa and the Middle Altitude agro-ecology
- Contribute to proposal development and project implementation for cassava and other root crops in Southern Africa.
- Contribute to research teams within and outside of IITA as needed
- Timely publication and communications of results, outcomes, and impact of SARRNET and IITA R4D

- Contribute to capacity building in root crop improvement and other relevant R4D areas

2014-till now: Regional cassava breeder of IITA based at its Southern Africa Regional Hub, Lusaka, Zambia

Some publications between 2010-2019

Year 2010

Fermont, A. , Tiftonell, P. A. , Baguma, Y. , **Ntawuruhunga, P.** , Giller, K.2010 Towards understanding factors that govern fertilizer response in cassava: lessons from East Africa. *Nutr Cycl Agroecosyst* (2010) 86:133–151, DOI 10.1007/s10705-009-9278-3

Ntawuruhunga P. 2010. Strategies, choices and programme priorities for the East Africa Root Crops Research Network (EARRNET). Eastern Africa Root Crops Research Network (EARRNET). 57 pp.

Ntawuruhunga P. and Okidi. J. 2010.Eastern Africa Root Crops Research Network (EARRNET) Legacy. 56 pp.

Ntawuruhunga P and Dixon AGO. 2010. Quantitative variation and interrelationship in cassava clones. *J. Appl. Biosci.* 26: 1594 – 1602, ISSN 1997–5902

Ntawuruhunga P. 2010. Call To Develop Cassava Varieties That Will Stand The Storm Of Climate Change. Cassava A Wonderful Crop for Hope. *Roots 12(2): 3.*

Jumbo, S., **P. Ntawuruhunga**, C. Moyo, A. Nthonyiwa and G.Chisusu , 2010. Unleashing the Power of Cassava in Response to the Food Price Crisis in Africa (UPoCA): Malawi conducts Training of Trainers workshops to boost cassava production and farm gate processing. *Roots 12(2): 18-20.*

Mkamilo G.S., Ndyetabula I.L., Jeremiah S.C., Merumba S.M., Kibura J., Karugaba R.K., Chirimi B., Bagambisa C., Milala P., Chuwa C., Ngendello T., Legg J.P., Kanju E.E⁴, and **Ntawuruhunga P.** Recent Released Cassava Varieties in the Lake Zone of Tanzania. *Roots 12(2): 11-12.*

Chipungu, F.P., I.R.M. Benesi, P. Pamkomera, C.C. Moyo, O. Mwenye, **P. Ntawuruhunga**, M. Matchombe and S. Chilungo. 2010. A root a day, everyone everyday- Zonden: An orange fleshed sweetpotato variety for a sustainable Vitamin A deficiency reduction in Malawi. *Roots 12(2): 9-10*

Ntawuruhunga P., Andrade M., Demo P, 2010. Improving Rural Livelihoods in Southern Africa through Root and Tuber Crops. FANRPAN Annual High Level Regional Food Security Policy Dialogue 2010 at <http://dialogue2010.fanrpan.org/node/236>

P. Ntawuruhunga, James, B., Okechukwu, R., Sanni, L., Sandifolo V., Tarawali, G., A. Abass; and Legg J. 2012 Inter-project linkages to create cassava enterprises

for expanded markets and utilization. Presented at the 11th Symposium of the ISTC-AB, Kinshasa, 4-8 October 2010.

Kanju, E. **Ntawuruhunga, P.** and Otim-Okello, F. 2012. Progress in screening cassava genotypes for resistance to cassava brown streak Uganda virus. Presented at the 11th Symposium of the ISTC-AB, Kinshasa, 4-8 October 2010.

C.C. Moyo, S. Jumbo, N.M. Mahungu, I.R.M. Benesi, and **P Ntawuruhunga**, 2012. Evaluation of commercially available herbicides for weed control in cassava. Presented at the 11th Symposium of the ISTC-AB, Kinshasa, 4-8 October 2010.

R.U. Okechukwu, James B., **Ntawuruhunga P.**, Mahungu N., Boahen S., Kanju, E., Osei-sarfoh, A., Fannah, Jumbo, S., Sonder, K., and Alabi, T. 2012. Distribution and potential impact of cassava variety spread by UPoCA. Presented at the 11th Symposium of the ISTC-AB, Kinshasa, 4-8 October 2010.

Rusike, J., Jumbo, S., **Ntawuruhunga, P.**, Kawonga, J. M., James, B., Okechukwu, R. and Manyong, V., 2010. Ex-Ante evaluation of cassava research for development in Malawi: a farm household and random utility modelling approach: In: Proceedings of the 3rd African Association of Agricultural Economics. In: Proceedings of the 3rd African Association of Agricultural Economics (A.A.A.E) and Agricultural Economics Association of South Africa (A.E.A.S.A) conference held at Cape Town, South Africa, 19-23 September. 2010. Cape Town, South Africa; 32p. Available at <http://ideas.repec.org/p/ags/aaae10/96182.html>

Year 2011

Ntawuruhunga P., Andrade M., Demo P and Moyo C.C 2011. Improving the Rural Livelihood s in Southern Africa project: 2004-2010. *Roots Vol (13). Pp 14-18.*

Legg J., Mbewe W., Kamar L., **Ntawuruhunga P.**, Changadeya w. And Moyo, C.C. 2011. Meeting the challenge of Cassava Brown Streak (CBSD) in Malawi. *Roots Vol (13). Pp 4*

Ntawuruhunga P. 2011.Strengthening collaboration Research through R4D achieved good results. *Roots Vol (13). Pp 4*

Ralimanana I. and **Ntawuruhunga P.** 2011. La maladie de la striure brune du manioc à Madagascar. *Roots, Vol (13). Pp 8-9*

Year 2012

Ntawuruhunga P., James B., Sanni B., Sandifolo V., Tarawali G., Okechukwu R.U and Abass A. 2012. Inter-project linkages to create cassava enterprises for expanded markets and utilisation. . In Proceedings of the 11th ISRTC-AB,

Kinshasa, DRC, 4-8 October 2010. Okechukwu R.U and Ntawuruhunga P. (Ed.) Pp. 344- 353

Ntawuruhunga P., Kiryowa M., Okechukwu R., Otim-Okello F., and Kanju E. 2012. Preliminary results of screening IITA improved germplasm for resistant to cassava brown streak disease (CBSD) in Uganda. In Proceedings of the 11th ISRTC-AB, Kinshasa, DRC, 4-8 October 2010. Okechukwu R.U and Ntawuruhunga P. (Ed.). pp: 398-405

J. Okidi, **Ntawuruhunga P.**, Mukama E., Mutyana C. Agona A. Oloveira and Wanda K. 2012. Out scaling of improved cassava processing technology-Uganda lessons. In Proceedings of the 11th ISRTC-AB, Kinshasa, DRC, 4-8 October 2010. Okechukwu R.U and Ntawuruhunga P. (Ed.) pp. 638-645

Kanju E., **Ntawuruhunga P** and Otim-Okello F. 2012. Progress in screening cassava genotypes for resistance to cassava brown streak Uganda virus. 2012. In Proceedings of the 11th ISRTC-AB, Kinshasa, DRC, 4-8 October 2010. Okechukwu R.U and Ntawuruhunga P. (Ed.) 125-128

Okechukwu R.U., James B., **Ntawuruhunga P.**, Mahungu N.M, Boahen S., Kanju E., and Osei-sarfoh A/ 2012. Distribution and potential impact of cassava variety spread by UPoCA. In Proceedings of the 11th ISRTC-AB, Kinshasa, DRC, 4-8 October 2010. Okechukwu R.U and Ntawuruhunga P. (Ed.) Pp.325-331

Okechukwu R.U and **Ntawuruhunga P.** (Eds.) 2012. Tropical roots and tuber crops and the challenges of globalization and climate changes. Plantes à racines et tubercules tropicales et les défis de la mondialisation et du changement climatique. Proceedings of the 11th triennial Symposium of the ISTRC-AB held at Memling Hotel, Kinshasa, Democratic Republic of Congo from 4 to 8 October 2010, and International Society for Tropical Root Crops Africa Branch (ISTRC-AB), 2012

Year 2013

Ntawuruhunga P., Dixon A.G.O., Kanju E., Ssemakula G., Okechukwu R., Obiero H., Bigirimana S., Gashaka G., Lukombo S., Mkamilo G, Ndyetabura I., Tata Hangy., Otim Okello Fand Schofield. 2013. Successful innovations and lessons learnt in cassava improvement and deployment by IITA in the Eastern African Region. *African Journal of Root and Tubers Crops* Vol. 10 No. 1: Pages 41-54

Arega D. Alene, R. Khataza, C. Chibwana, P. Ntawuruhunga and C. Moyo. 2013. Economic impacts of cassava research and extension in Malawi and Zambia. *Journal of Development and Agricultural Economics*, Vol. 5(11), pp. 457-469. DOI10.5897/JDAE2013.0496

Ntawuruhunga P., Chiona M., Manda N., Korie S. and Njobvu J. 2013. Assessment of performance and farmers' preference of cassava varieties through

participatory variety selection calls for doubling breeding effort in Zambia. Paper presented at 12th Triennial Symposium of the International Society of Tropical Root Crops-Africa Branch (ISRC-AB), Accra, Ghana, 30 September to 5th October 2013.

Njukwe E., **Ntawuruhunga P.**, Bigirimana S. and Gashaka G . 2013. Initiatives by IITA to pre-empt cassava diseases and climate change to enhance food security in Burundi and Rwanda. Paper presented at 12th Triennial Symposium of the International Society of Tropical Root Crops-Africa Branch (ISRC-AB), Accra, Ghana, 30 September to 5th October 2013.

Year 2014

James Legg , Eklou Attiogbevi Somado , Ian Barker , Larry Beach , Hernan Ceballos , Willmer Cuellar , Warid Elkhoury , Dan Gerling , Jan Helsen , Clair Hershey , Andy Jarvis , Peter Kulakow , Lava Kumar, Jim Lorenzen , John Lynam , Matthew McMahon , Gowda Maruthi , Doug Miano, Kiddo Mtunda , Pheneas Ntawuruhunga, Emmanuel Okogbenin, Phemba Pezo, Eugene Terry, Graham Thiele, Mike Thresh, Jonathan Wadsworth, Steve Walsh, Stephan Winter, Joe Tohme and Claude Fauquet, 2014. A global alliance declaring war on cassava viruses in Africa. *Food Sec.* (2014) 6:231–248, DOI 10.1007/s12571-014-0340-x

Chiona M., Ntawuruhunga P., Benesi I.R.M., Matumba L. and CC Moyo. 2014. Aflatoxins contamination in processed cassava in Malawi and Zambia. *African Journal of Food, Agriculture, Nutrition and Development*, Vol. 14(3). 2014

Kamowa-Mbewe, W., Kumar, P.L., Changadeya, W., Ntawuruhunga, P. and Legg, J.P. 2014. Diversity, distribution and effects on cassava cultivars of cassava brown streak viruses in Malawi. *Journal of Phytopathology* (doi: 10.1111/jph.12339)

2015

James P. Legg, P. Lava Kumar, T. Makesh Kumar, Leena Tripathi, Morag Ferguson, Edward Kanju, **Pheneas Ntawuruhunga** and Wilmer Cuellar, 2015. Cassava Virus Diseases: Biology, Epidemiology, and Management. In: Gad Loebenstein and Nikolaos I. Katis, editors, *Advances in Virus Research*, Vol. 91, Burlington: Academic Press, 2015, pp. 85-142.

Tembo M., Mataa M., Legg J.P., Chikoti P.C and Ntawuruhunga P. Field evaluation of cassava genotypes for cassava mosaic disease based on symptom expression and virus species. Submitted to *Journal of Phytopathology*

2016

Babirye A., Ntawuruhunga P. and Edema R. 2016. Cassava mosaic disease resistant clones' growth and yield are prone to early drought stress. *African Journal of Agricultural Research*, Vol. 11(25), pp. 2240-2244, 23 June, 2016 DOI: 10.5897/AJAR2015.10074

Tembo M., Mataa M., Leg P.J, Chikoti P.C. and Ntawurhunga P. Field evaluation of cassava genotypes for cassava mosaic disease based on symptom expression and virus species. Submitted to *Journal of Phytopathology*

Ntawurhunga Pheneas, Chiona Martin, Kanju Edward, Moyo Christopher and Chama Turnbull. 2016. Contribution of the IITA cassava germplasm to meeting the increasing demand and future outlook in Southern Africa Region. E-proceeding of the World Congress on Root and Tuber Crops Nanning, Guangxi, China, January 18-22, 2016. <http://www.gcp21.org/wcrtc/ppt/S11presentation/S11-19.PheneasNtawurhunga.SIGNED.ID2154.3141.pdf>

John Okot, Natalie Lazarovitch, Shimon Rachmilevitch, Uri Yermiyahu, Steve Boehen, **Pheneas Ntawurhunga** and Eldad Sokolowsk 2016. Fertigation maximizes growth and root tuber yield of cassava, 2016. E-proceeding of the World Congress on Root and Tuber Crops Nanning, Guangxi, China, January 18-22, 2016. <http://www.gcp21.org/wcrtc/ppt/S15presentation/S15-14.JohnOmondi.SIGNED.ID4608.499.pdf>

2017

M. Chiona, G. Chigeza and P. Ntawurhunga, 2017. Exploring Climatic Resilience through Genetic Improvement for Food and Income Crops. In Smart Technologies for Sustainable Smallholder Agriculture- Upscaling in Developing Countries. Edts: N.Nhamo, D. Chikoye and T. Gondwe, 2017. Pp 81-94. ISBN 978-0-12-810521-4; <http://dx.doi.org/10.1016/B978-0-12-810521-4.00005-0>

M. Tembo, M. Mataa, J. Legg P.C. Chikoti and P. Ntawurhunga. 2017. Cassava mosaic disease incidence and yield performance of cassava varieties in Zambia. *Journal of plant pathology*. Vol 99, No 3 (2017). www.sipav.org/main/jpp, doi: <http://dx.doi.org/10.4454/jpp.v99i3.3955>.

Training Manuals

Chiona M., P. Ntawurhunga, I. Mukuka, A. Chalwe, N. Phiri, P. Chikoti, and M. Simwambana. 2016. Growing Cassava: Training Manual for Extension and Farmers in Zambia. International Institute of Tropical of Agriculture (IITA), Zambia. 76 pages.

2018

Gizachew Kebede Biratu, Eyasu Elias, **Pheneas Ntawurhunga** and Nhamo Nhamo . 2018. Effect of Chicken Manure Application on Cassava Biomass and Root Yields in Two Agro-Ecologies of Zambia. *Agriculture* **2018**, 8, 45; doi:10.3390/agriculture8040045.

John Okoth Omondi, Naftali Lazarovitch, Shimon Rachmilevitch, Steve Boahen, **Pheneas Ntawurhunga**, Eldad Sokolowski, and Uri Yermiyahu. 2018. Nutrient use efficiency and harvest index of cassava decline as fertigation solution concentration increases. *J. Plant Nutr. Soil Sci.* 2018, 000, 1–11. DOI: 10.1002/jpln.201700455

Gizachew Kebede Biratu, Eyasu Elias, **Pheneas Ntawurhunga**, and Gudeta W. Sileshi. 2018. Cassava response to the integrated use of manure and NPK fertilizer in Zambia. *Heliyon* 4 (2018) e00759. Doi: 10.1016/j.heliyon.2018 e00759

2019.

Kanju, E., Uzokwe, V.N.E., **Ntawuruhunga, P.**, Tumwegamire, S., Yabeja, J., Pariyo, A., Kawuki, R., Varietal response of cassava root yield components and root necrosis from cassava Brown streak disease to time of harvesting in Uganda. *Crop Protection* (2019), DOI: [https:// doi.org/10.1016/j.cropro.2019.02.013](https://doi.org/10.1016/j.cropro.2019.02.013)

Emmanuel Oladeji Alamu, **Pheneas Ntawuruhunga**, Terence Chibwe, Ivor Mukuka and Martin Chiona. 2018. Evaluation of cassava processing and utilization at household level in Zambia. *Food Security. Food Security*, February 2019, Volume 11, Issue 1, pp 141–150. <https://doi.org/10.1007/s12571-018-0875-3>

Gizachew Kebede Biratu, Eyasu Elias and **Pheneas Ntawuruhunga, 2019**. Soil fertility status of cassava fields treated by integrated application of manure and NPK fertilizer in Zambia. *Environ Syst Res* (2019) 8:3<https://doi.org/10.1186/s40068-019-0131-7>

Wenbo Chena,¹ Everlyne N. Wosulab,¹ Daniel K. Hasegawac, Clerisse Casingad, Rudolph R. Shirimab, Komi K.M. Fiaboee, Rachid Hannae, Apollin Fostoe, Georg Goergenf, Manuele Tamòf, George Mahukub, Harun M. Murithib, Leena Tripathig, Bernard Mwareg, Lava P. Kumarh, **Pheneas Ntawuruhunga**, Christopher Moyo, Marie Yomenik, Stephen Boahenl, Michael Edetm, Wasiu Awoyalem, William M. Wintermanteln, Kai-Shu Lingc, James P. Leggb, Zhangjun Feia. 2019. Genome of the African cassava whitefly *Bemisia tabaci* and distribution and genetic diversity of cassava-colonizing whiteflies in Africa. *Insect Biochemistry and Molecular Biology* 110 (2019) 112–120. <https://doi.org/10.1016/j.ibmb.2019.05.003>

ALAMU Emmanuel Oladeji, **NTAWURUHUNGA Pheneas**, CHILESHE Prisca, OLANIYAN Bukola, MUKUKA Ivor, MAZIYA-DIXON Busie 2019. Nutritional quality of fritters produced from fresh cassava roots, high-quality cassava and soy flour blends, and consumer preferences. *Cogent Food & Agriculture*
DOI: <http://dx.doi.org/10.1080/23311932.2019.1677129>