

Curriculum Vitae

Dr. Kashub Steven Tumwesigye



Nationality: Ugandan

Almer mater: Makerere University Uganda
(Bachelor & Masters, Food Science & Technology)
National University of Ireland
(PhD Engineering-Process & Chemical)

Occupation: Senior Researcher, Researcher Academic & Senior Lecturer-
Process & Chemical Engineering; Food Sciences; Agribusiness;
Nutrition Sciences

Known for: Innovative Pioneer Research in crop by-product-based
Biodegradable plastics in Uganda

Highest Education: Post-Doctorate, Process & Chemical Engineering

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Personal profile statement:

I have professions in Process & Chemical Engineering, Food & Nutrition Sciences. I am currently serving as a Senior Lecturer, Uganda Christian University (UCU), Main Campus and previously as a Senior Research Officer, National Agricultural Research Organisation (NARO), and a Researcher Academic, National University of Ireland, College Cork, Ireland.

I conduct research in food system and agriculture value chains, material science and engineering, nanotechnology & food value chains. I succeeded in engineering biobased materials, for the: (a) reduction in waste disposal costs and management of resources to contribute to zero-environment footprints; (b) development of cost-effective and energy-efficient biodegradable commercial materials and products; and (c) carrying plant bio-actives (phytochemical) as functional antioxidants, antibacterial, antifungal and grain pest repellent bio-derivatives for active packaging of agricultural produce and food products. I am the pioneer scientist to explore an integrated sustainable methodology for development of biodegradable plastic materials based on cassava worldwide. Currently, I lead a team in developing functional plant metabolites as ingredients and feedstocks for food, bio-preservative, cosmetic nutraceutical/supplement, and pharmaceutical industries; to this effect I have developed food supplement excipient tablets for encapsulating Iron and zinc and biodegradable nano-coatings and nanosheets for active packaging fresh and minimally processed foods. I have an experience in innovative & enterprising research in value addition, and Agribusiness value chain design and development.

As a Senior Lecturer at Uganda Christian University, main campus since 2016; I have, and currently supervising undergraduate (> 5) and postgraduates (>5); been key in establishment and designing a roadmap for a vibrant department of food and Nutritional Sciences with state-of-art infrastructure; contributed immensely to the (a) development Faculty of Agricultural Sciences strategic plan and spearheaded (i) research and innovation plan; (ii) Curricula for Bachelors of Food Science and Technology and Human Nutrition and Dietetics, Masters of Science in Human Nutrition and Diploma in Human Nutrition and Dietetics; (b) bringing research funds to the faculty through projects in multidisciplinary teams; (c) development of partnerships for teaching and learning (UNBS), research (private sector and federations), and currently developing outreach programme for the local church to disseminate nutrition and health knowledge, skills and practice to maternal and youth.

I been involved in consultancies; (i) with National University of Ireland and Dairy Processing Technology Centre, Ireland to develop a model for Dairy industry based on Quality by Design (QbD) to promote competitiveness of Dairy products; (ii) sufficient roles in agricultural and food systems feasibility studies in postharvest, agro-processing and value chains for Government, NGOs and international organisations for the last 10 years; (iii) have participated in the consortium of developing projects for agriculture value chains-driven irrigation for 6 central and western Uganda districts, for which case I led in the designing of bulking, management and marketing of Irrigation outputs.

I am a seasoned international journals' reviewer in carbohydrate polymer, Biochemical Engineering, Carbohydrate Polymer Technology and Applications and Frontiers Food Sustainability Journals, and a member of Elsevier Advisory Panel. I have been an expert reviewer of Makerere University Research Innovation Fund (RIF) since 2018.

I am an advocate of a cyanide toxin-free society, whereby I am a member representative on the international Cassava Cyanide Disease and Neurotoxicity Network (CCDNN) consortium and have created awareness about dangers of cyanide in local tabloids-New Vision and Daily Monitor.

I consider modern science, green environment innovations, knowledge/research-led industrialisation, circular bioeconomy, research and product-led teaching and learning, and science communication as key development pillars for the future.

Background & Education

INSTITUTION AND LOCATION	QUALIFICATION	COMPLETION	MAJORFIELD OF STUDY
Makerere University	BSc. Food Science and Technology	10/1995	Food Science and Technology
Makerere University	MSc. Food Science and Technology	04/2006	Food Science and Technology
National University of Ireland	PhD Engineering	10/2016	Process and Chemical Engineering
National University of Ireland	Postdoctoral Research Training	10/2020	Quality by Design in Food processing and Product Development
Uganda Management Institute	Postgraduate Training	On-going	Public Administration and Management

Professional training

- i. Competence enhancement training on research project proposal development & management (2017); Carbohydrate Reviewing in recognition of the review made for the journal (2016, 2017 & 2018);
- ii. Intellectual property and traditional knowledge for economic development-empowering local communities (2017);
- iii. Bio Biz Incubation & Entrepreneurship skills (2012);
- iv. Scientific writing & communication skills for research scientists (2011);
- v. Market access for sustainable development, Wageningen, The Netherlands (2011);
- vi. Development of Performance Monitoring Plans (PMPs) for the Priority Cassava project developed by the Cassava Regional Centre of Excellency, ASARECA Regional Convening Meeting (2011);
- vii. CIAT Africa, PABRA Nutrition Core Team Meeting (2011);
- viii. Potential of Bio-fortified Beans to address Micro- and Macro-nutrient deficiencies among populations in Uganda (2011);
- ix. Integrated Agricultural Research for Development (IAR4D) Lake Kivu Pilot Learning Site (LKPLS) Stakeholder Write shop. FARA, sub-Saharan Africa Challenge Programme (SSA-CP) (2011);
- x. Molecular Biology techniques and Biochemistry. Biosciences (2011);
- xi. Computational statistics and advanced research methods (2010);
- xii. Improved Access to Online Agricultural Information by Researchers. NARO – INASP (UK), (2007).

Work Experience

Period	Institution	Position	Responsibility
2021 – to date	Uganda Christian University	Senior Lecturer / HOD	Administration; Teaching; Research; Supervision; Partnership/Outreach Engagement
2016 – 2021	Uganda Christian University	Senior Lecturer-Part time	Teaching; Research; Supervision; Outreach Engagement
2017 -2021	National Agricultural Research Organisation	Senior Research Scientist	Research in agriculture and food systems, chemical and process Engineering, material science and phytochemistry; Project fund sourcing; Agribusiness incubation
2004 - 2016	National Agricultural Research Organisation	Research Scientist	Research in agriculture and food systems; Project fund sourcing
2022	FOODLAND Project	Project team member	Smart packaging for primary and secondary fish processing & establishment of Fish processing plant in central Uganda
2021	Ministry of Agriculture Animal Industry and Fisheries (MAAIF)	Consultant	Feasibility for the establishment of value addition and processing plants in Uganda
2020	Irish Government	Stakeholder	National Task Force on Rural Africa (NTTRA) for EU/AU proposed development intervention for Africa
2018	Uganda Local Government Association	Agroprocessing Consultant	Feasibility for Irrigation driven Agricultural value chains for increased commodity productivity, agroprocessing and marketing in Masaka, Lwengo, Lyantonde, Kiruhura, Sembabule and Mbarara districts
2017-2021	Blue Creameries Ltd (Ireland)	Coordinator & consultant	Feasibility for investment in Cheese industry in Uganda (active & final stage).
2017	Irish Government/CMC	Coordinator	Feasibility of establishing a Mushroom industry in Uganda
2014	World Bank-funded EAAPP project	Lead consult	Mapping cassava value chain in Uganda

Services to University and community

Year	Institution	Service
2016 - 2022	Uganda Christian University	Teaching, supervision, leadership, partnership development

2018 – to date	Makerere university	External Examination, Project proposal reviews, Doctoral committee advisory
2015 to date	Community	<ul style="list-style-type: none"> Promote sustainable agricultural production for food, income and nutrition security Transform farming communities from subsistence farming towards agribusiness
2015 to date	Uganda Christian University	<ul style="list-style-type: none"> Provide exposure and experiential learning for agriculture/ food science students as they work in communities Initiated extending university Christian based nutrition and health activities in a local church

Research Development interest & contribution to research Innovations

Student Research- and knowledge-led food product development and entrepreneurship

Chemical and Bioprocess systems: Fundamental in broad application in converting by-product waste biomass into food value products, nutraceuticals and industrial process and products. This also ensures bioremediation for green environment.

Impact-oriented research: pilot more focused novel research which will indirectly drive the downstream actors' willingness to support & embrace novel researches, thereby contributing to research funding.

Commercial bioplastics and bio-coatings for national use: Biodegradable packaging sheets (internal linings of grain bags, agricultural films and seedling bags); biobags for waste management & disposal (internal lining of waste bins); biodegradable shopping bags (goods carrier bags); antimicrobial & anti-oxidant food wrap packages; antimicrobial, anti-oxidant and EMAP packages for fresh respiring and minimally-processed food products. The entire above are purposely developed for mitigating environmental impact and ensuring public health.

Phytochemical research for bioactive compounds production targeted to bio-preservation, food, nutrition and health.

Agricultural value chain design and development for elaborated industrial development and trade.

Pioneered research on the development of low-cost and energy efficient biodegradable plastics for commercial and domestic use.

A. Positions and Honors

Research Positions:

- Principal Investigator, NARO Competitive grants (3): Nutrient-enriched instant maize flour and snack (2018-2021); Nanosurface biodegradable packaging materials (2019-2022); and development of biodegradable plastics for broad use (2016-2019)
- Co-PI, UNCST-NSTIP Research Project- Modification of cyanogenic cassava starch/flour for industrial and food use (2017-2018)
- Co-PI, NARO Competitive grants: Bio-preserved cooked beans project (2019-2022).
- Co-PI, NARO Competitive grants: Gynandropsis gynandra and *Nauclea latifolia* species extracts- plant bioactivities for application in food preservation & plant fertilizer (2016-2018)
- Co-PI, FOOD and Local, Agricultural, and Nutritional Diversity (FOODLAND) project-Value addition component (2020-2023)
- Member, Doctoral Committee, Department Biochemistry, College Natural Sciences, Makerere University (2020-2022)

7. Co-PI, Ministry of Science Technology and innovation project on developing of healthy-rich tea varieties and value-added tea products for improved livelihoods in Uganda (2021-2024)
8. 2021-2023: Team Member, UCU project on exploring African indigenous vegetables for Human health in Uganda
9. 2021-2024: Team Member, FARA/ASARECA project on Enhancing inclusive market access for African indigenous vegetable seed and value-added products by smallholder farmers in Uganda

Honors:

10. Journal Reviewer recognition for Carbohydrate Polymers and Biochemical Engineering journal (2016-todate)
11. Annual recognition for expert contribution to Elsevier as Member Advisory Committee (2015 – to date)

Management & Coordination positions:

12. Focal point, Intellectual property rights, NARO-Kawanda (2017-todate) and TISC, World Intellectual Property Organisation (WIPO) (2018-to date)
13. Member, Elsevier Advisory Committee (201-to date)
14. Member, Agribusiness Consortium, Uganda (2018-todate)
15. Country Coordinator, Cassava Cyanide Disease Neurolathyrism Network (2013-2016)
16. Head, Agribusiness unit, Food Biosciences and Agribusiness Program, NARO (2017-2021)
17. HOD, Food Nutritional Sciences, Faculty of Agricultural Sciences (FAS), UCU

Appointment/Affiliation/Membership to professional bodies

- 2021: Consultant, Feasibility for the establishment of value addition and processing plants in Uganda
- 2020: Stakeholder Ireland, National Task Force on Rural Africa (NTTRA) for EU/AU proposed development intervention for Africa
- 2017 – present: Focal point, NARO and TISC/WIPO Intellectual Property Rights
- 2018: External Examiner of MSC student on: Nutritional and starch quality traits of Pro-vitamin A cassava clones that exhibit resistance to brown streak disease
- 2018: Member, World Environment Management Committee
- 2017 – present: Member, Elsevier Advisory Panel
- 2017 – present: Coordinator, Blue Creameries Ltd (Ireland)-Dairy Cooperatives (Uganda) for investment in Cheese industry in Uganda (active & final stage).
- 2016 – present: Member, Agribusiness incubation consortium (Ug)
- 2015 – present: Reviewer, Carbohydrate Polymer Journal; American Scholarly Journals, Frontiers in Science, Biochemical Engineering Journal; Carbohydrate Polymer Technology & Applications
- 2013 – present: Country Coordinator, Cassava Cyanide Disease Neurolathyrism Network
- 2011 – present: Focal person, Regional Cassava Centre of Excellence (RCoE), EAAPP
- 2012 - present: Consultant, Postharvest and Agro-processing-SG2000 Programs

Expertise/core competencies in various fields

1. Negotiation and mobilisation

I have thrice (2017, 2018, 2019) successfully mobilised, in partnership with Uganda Consular in Ireland and Embassy of Ireland in Kampala, commercial farmers, agribusinesses and policy makers (headed by Minister of Agriculture) for a business trip to Ireland. This came on realisation (during the 4 years studying in Ireland) that there were many opportunities Uganda could benefit from developed Irish Agriculture, Industry and business sectors. This, I did through negotiation with commercial farmers, agribusiness and Departments of Agriculture and Foreign Affairs in Ireland. The program runs every year with the purpose of linking Uganda commercial farmers with Irish counterparts and both ministry of Agriculture Uganda and Departments of Agriculture and Foreign Affairs Ireland.

As a result, I have successfully negotiated with important investment into the country-continental mushroom hub (feasibility study completed) and Cheese industry (feasibility to be done around Jun, 2019).

Further, in an effort to ensure circular bioeconomy and support for this country in the current global agenda on Bio-economy, I am current negotiating links with EU through Irish collaborations to fund comprehensive profiling of all biomass and wastes for different industrial feedstocks.

2. Mentorship

As a leader, Agribusiness incubation centre-Kawanda, I have been able to mentor three agribusinesses graduating into fully-fledged business entities. Currently, I mentor a number of growing enterprises and established ones, which has attracted Korean government to invest in facility for instant foods at Kawanda.

I am involved in supervising a PhD student looking at developing an efficient tool (based on science and innovation) to help banana breeding; a MSC student dealing with foods to help supplement refugees nutrition in Uganda

I am also involved in mentoring NARO staff in strategic research designs and statistics, model developments and competencies in peer review journal publications.

3. Writing skills & Communication

I have developed writing skills as exemplified by the number of publications, project proposals and a number of NARO reports

I have also presented “pitch talks” at African day (Europe) on the role of Bio-wastes in bio-economy; at NARO Expo 2018 (Serena hotel) on role on biodegradable plastics on the economy; science stories Africa (online), in addition to lecturing and conferences.

Contributions to Science

1. Development of Biodegradable plastics for broad use
2. Development of Iron and Zinc supplements
3. Development of plant bioactive compound extraction system
4. Publications in refereed journals:

Peer review Journals

1. Buregyeya, H., **Tumwesigye, K. S.**, Matovu, M., Nowakunda, K., Namanya, P., Tushemereirwe, W. K., Karamura, E., & Rubaihayo, P. (2021). Mode of inheritance for resistance to FOC Race 1 and fruit quality traits in Sukali Ndizi cultivar of Banana. *Journal of Plant Breeding and Crop Science*, 13(4), 168-176.
2. Tumwesigye, K.S., O'Brien, E., Oliveira, J.C., Crean, A., & Sousa-Gallagher, M.J. (2020). Engineered food supplement excipients from bitter cassava for minimisation of cassava processing waste in environment. *Future Foods*.
3. Natabirwa, H., Nakimbugwe, D., Lung'aho, M., **Tumwesigye, K.S.**, & Muyonga, J.H. 2020. Bean-based nutrient-enriched puffed snacks: Formulation design, functional evaluation, and optimization. *Food Science and Nutrition*.
4. Buregyeya, H., Tumuhimbise, R., Matovu, M., **Tumwesigye, K.S.** et al 2020. Fusarium oxysporum Race 1 resistance and quality traits variations in apple banana germplasm. *Journal of Plant Breeding and Crop Science*.
5. Cerqueira, M.A., Pastrana, M., Sousa-Gallagher, M.J., & **Tumwesigye, K.S.** (2019). Does the future of food pass by using nanotechnology? *Frontiers in sustainable food systems*, 3(16), 1-5.
6. Tumwesigye, K.S., Sousa, A.R., Oliveira, J.C., & Sousa-Gallagher, M.J. (2017). Evaluation of novel bitter cassava film for equilibrium modified atmosphere packaging of cherry tomatoes. *Food Packaging and Shelf Life* 13 (2017) 1–14
7. Tumwesigye, K.S., Oliveiraa, J.C., & Sousa-Gallagher, M.J. (2017). Quantitative and mechanistic analysis of impact of novel cassava-assisted improved processing on fluid transport phenomenon in humidity-temperature-stressed bio-derived films. *European Polymer Journal* 91, 436–451.
8. Tumwesigye, K.S., Peddapatla, R.V.G., Crean, A., Oliveira, J.C., & Sousa-Gallagher, M.J. (2016). Integrated process standardisation as zero-based approach to bitter cassava waste elimination and widely-applicable industrial biomaterial derivatives. *Chemical Engineering and Processing: Process Intensification*, 108, 139-150
9. Tumwesigye, K. S., Oliveira, J. C., & Sousa-Gallagher, M. J. (2016). Integrated sustainable process design framework for cassava biobased packaging materials: Critical review of current challenges, emerging trends and prospects. *Trends in Food Science & Technology*, 56, 103-114.

10. Tumwesigye, K. S., Morales-Oyervides, L. Oliveira, J. C., & Sousa-Gallagher, M. J. (2016). Effective utilisation of cassava bio-wastes through integrated process design: A sustainable approach to indirect waste management. *Process Safety and Environmental Protection*, 102, 159–167
11. Tumwesigye, K. S., Montañez, J. C., Oliveira, J. C., & Sousa-Gallagher, M. J. (2016). Novel Intact Bitter Cassava: Sustainable Development and Desirability Optimisation of Packaging Films. *Food and Bioprocess Technology*, 9(5), 801-812.
12. Tumwesigye, K. S., Oliveira, J. C., & Sousa-Gallagher, M. J. (2016). New sustainable approach to reduce cassava borne environmental waste and develop biodegradable materials for food packaging applications. *Food Packaging and Shelf Life* 7, 8–19.
13. Tumwesigye, S. K. 2014. Three decades of toxic cyanide management in Uganda. Doing and communicating more with minimal strategies. Has it been possible? Working together to eliminate cyanide poisoning, konzo, tropical ataxic neuropathy (TAN) and neurolathyrism, *Cassava Cyanide Diseases & Neurolathyrism Network*, 24, 4 – 9.
14. Tumwesigye, S. K., Baguma, Y., Kyamuhangire, W. and Mpango, G. 2006. Association between accumulation of total cyanogens and progression of cassava mosaic disease in cassava (*Manihot esculenta* Crantz). *Uganda Journal of Agricultural Sciences*, 12(1), 13-21.
15. Birachi, E., Karume, K., Kyamuhangire, W., Chiuri, W., **Tumwesigye, K. S.**, Tenywa, M., Nyamwaro S. O., *et al.* 2013. Expanding market access and value addition in selected agricultural value chains: the role of IAR4D in the Lake Kivu Pilot Learning Site. *African Journal of Agricultural and Resource Economics*, 8(3), 135 - 144.
16. Bonabana-Wabbi, J., Mugonola, B., **Tumwesigye, S.**, Tenywa, M., 2013. Agricultural profitability and technical efficiency: the case of pineapple and potato in SW Uganda., *African Journal of Agricultural and Resource Economics*, 8(3), 145-159.
17. Chiuri, W., Buruchara, R., Adekunle, W. **Tumwesigye, S.**, *et al.* 2013. Market access for agro-enterprise diversity in the Lake Kivu Pilot Learning Site of the sub-Saharan Africa Challenge Programme. *African Journal of Agricultural and Resource Economics*, 8(3), 120-134.
18. Kawuki, R. S., Pariyo, A., Amuge, T., Nuwamanya, E., Ssemakula, G., **Tumwesigye, S.**, Bua, A., Baguma, Y., Omongo, C., Alicai, T. and Orone, J. 2011. A breeding scheme for local adoption of cassava (*Manihot esculenta* Crantz). *Journal of Plant Breeding and Crop Science*, 3(7), 120-130.
19. Mufumbo, R., Baguma, Y., **Kashub, S.**, Nuwamanya, E., Rubaihayo, P., Settumba, M., Hamaker, B. and Kyamanywa, S. 2011. Amylopectin molecular structure and functional properties of starch from three Ugandan cassava varieties. *Journal of Plant Breeding and Crop Science*, 3(9), 195-202.
20. Mufumbo, R., Baguma, Y., **Kashub, S.**, Nuwamanya, E., Rubaihayo, P., M., Settumba, H., Bruce and Kyamanywa, S. 2011. Functional properties of starches on the East African Market. *African Journal of Food Science*, 5(10), 594-602.
21. Sserubombwe, W. S., Bua, A., Baguma, Y. K., Alicai, T., Omongo, C. A., Akullo, D., **Tumwesigye, S.**, Apok, A. and Thresh, J. M., 2005. The relative productivity of local and improved cassava mosaic disease-resistant varieties in Uganda in 1999 and 2003. *Roots*, 9 (2), 15-20.

Books and Book Chapters

1. Tumwesigye, K.S., Oliveira, J.C., Namuwaya, S., & Sousa-Gallagher, M.J. (2021). Cassava Biomaterials for Industry Applications. In: Frediansyah A (ed.). CASSAVA-Biology, Production and Use. Intechopen publishers. DOI: 10.5772/intechopen.97493
2. Natabirwa, H.N., & Katende, D. (2014). Bean Recipes-Best food choice for the adventurous cook. **Tumwesigye, K.S.**, Ugen, M., & Owomugisha, N. (Eds.). *NARO-NARL/CIAT-PABRA/NARO-NaCRRI Publications*, Kampala Uganda.
3. Tumwesigye, S.K. 2013. Mapping and understanding the cassava value chain in Uganda. *LAP LAMBERT Academic Publishing GmbH & Co. KG*, Saarbrücken Germany.

Conference proceedings

1. Tumwesigye K. S., Oliveira J. C., Sousa-Gallagher M. J. (2014). Intact bitter cassava processing can reduce waste and produce biopolymer packaging materials, Advances in Food processing-Challenges for the future, *In Programs & Abstracts, 07.4*, 5-8 Nov. 2014, Campinas, Brazil.
2. Ogwal-Omara, R., **Tumwesigye, S.**, Masette, M., Mutyaba, C. and Muyinza, H. 2012. Mapping and Understanding the Cassava Value Chain in Uganda. *Proceedings of the 2nd Global Cassava Partnership for the 21st Century (GCP 21 II)*, June 18-22, 2012. *Kampala Uganda*.

3. Kawuki, R.S., Semakula, G.N., Orono, J., Oba, J., Majara, C., Mwanga, R.O.M., Baguma, Y., Pariyo, A., Alicai, T., Omongo, C.A., Ntawuruhunga, P., Labuschagne, N., Herselman, L., Ferguson, M., Edema, R., Okori, P., Nuwamanya, E., Amuge, T., **Kashub, S.**, Fregene, M. and Bua, A. 2008. *Breeding for better cassava in Uganda. Proceedings: Cassava: Meeting the challenges of the new Millennium. First Scientific Meeting of the Global cassava Partnership, Gent Belgium. July 21st – July 25th 2008*
4. R.S. Kawuki, R.O.M Mwanga, Y. Baguma, A. Pariyo, G.N. Ssemakula, T. Alicai, C.A Omongo, R. Edema, P. Okori, E. Nuwamanya, T. Amuge, **S. Kashub**, M. Fregene. 2007. Breeding for locally adapted cassava in Uganda. *In: Scientific conference of Biotechnology, breeding and systems for African Crops, Maputo Mozambique. 26 – 29th March, 2007*
5. Nuwamanya, E., Kawuki, R.S., **Kashub, S.**, Semakula, G.N., Mwanga, R.O.M, Amuge, T., Pariyo, A., Baguma, Y., Alicai, T., Omongo, C.A., Fregene, M. and Bua, A. 2007. Assessment of Cassava Root Starch qualities in an F1 population derived by crossing Uganda local cassava varieties with elite cassava introductions. *Proceedings: Biotechnology, Breeding and Seed Systems for African Crops, 26-29 March 2007 Maputo Mozambique. P. 179*
6. Tumwesigye, S. K. Natabirwa, and H. 2005. Effects of processing methods on the nutritional value of bean flour and acceptability of the cassava/bean-based composite meals. *African Crop Science Conference Proceedings, 7: 647-650.*
7. Tumwesigye, S., Bua, A., Baguma, Y., Alicai, T., Omongo, C.A., Kawuki, R., Apok, M., Pariyo, A., Akullo, D. and Otim-Nape, A. (2005). Value addition to the cassava crop in Uganda for sustainable markets. *Poster. 3rd FARA conference, Entebbe Uganda.*
8. Omongo, C.A., Alicai, T., Kawuki, R., Baguma, Y., Pariyo, A., **Tumwesigye, S. K.**, Apok, A. and Bua A. 2005. Is the current cassava whitefly, *Bemisia tabaci*, population explosion an important factor in the apparent rapid spread of cassava brown streak disease in central Uganda? *Paper presented at 7th ACSS Conference, Entebbe, Uganda.*
9. Ssali, W., Masette, M., Natabirwa, H, Njoki, P., Matovu, M., **Tumwesigye, S.** (2005). Mukene processing technologies. *3rd FARA conference, Entebbe Uganda.*
10. Ssali, W., Masette, M., Natabirwa, H, Njoki, P., Matovu, M., **Tumwesigye, S.** (2005). Value addition to soybean in Uganda through processing. *3rd FARA conference, Entebbe Uganda.*
11. Tumwesigye K. S., Oliveira J. C., Sousa-Gallagher M. J. (2014). Bioprocessing of bitter cassava solid waste for sustainable production of bio-based packaging materials, Eastern African Agricultural Productivity Program. April 2014, Entebbe Uganda.
12. Leahy M. L., **Tumwesigye K. S.**, Montanez J. C., Oliveira J. C., Sousa-Gallagher M. J. (2015). Moisture sorption behaviour of intact bitter Cassava packaging films at different temperatures, 44th Annual Food Research Conference, 14th December 2015, Teagasc Food Research Centre, Moorepark, Fermoy, Co. Cork. *Conference Proceedings.*
13. McNulty R., **Tumwesigye K. S.**, Montanez J. C., Oliveira J. C., Sousa-Gallagher M. J. (2015). Effect of temperature and relative humidity on water vapour transmission rate of intact bitter Cassava packaging film, 44th Annual Food Research Conference, 14th December 2015, Teagasc Food Research Centre, Moorepark, Fermoy, Co. Cork. *Conference Proceedings.*
14. Tumwesigye K. S., Cummins T, Montanez J. C., Oliveira J. C., Sousa-Gallagher M. J. Optimisation of processing conditions for improved film properties from intact bitter cassava using multi-response desirability, 44th Annual Food Research Conference, 14th December 2015, Teagasc Food Research Centre, Moorepark, Fermoy, Co. Cork. *Conference Proceedings*
15. Tumwesigye K. S., Morales-Oyervides L., Sousa R., Oliveira J. C., Sousa-Gallagher M. J. (2016). Effective utilisation of cassava bio-wastes through integrated process design: A sustainable approach to waste, resource and environmental management in food processing, 18th IUFOST-World Congress of Food Science and Technology “Greening the global food supply chain through Innovation in Food Science and Technology”, 21-25th August, 2016, Institute of Food Science and Technology, Dublin Ireland, (*Submitted, Accepted*)
16. Sousa R., **Tumwesigye K. S.**, Tank A., Oliveira J. C., Sousa-Gallagher M. J. (2016). Evaluation of Novel Bitter Cassava Films for Equilibrium Modified Atmosphere Packaging of Tomatoes, 18th IUFOST-World Congress of

Food Science and Technology “Greening the global food supply chain through Innovation in Food Science and Technology”, 21-25th August, 2016, Institute of Food Science and Technology, Dublin Ireland, (Accepted).

References

1. Prof. Maria Sousa-Gallagher,
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