



Professor Kyamanywa Samuel

Crop Scientist

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About/Introductory statement

Kyamanywa, is a retired Professor of Agricultural Entomology on contract in the Department of Agricultural Production Makerere University. He has over 30 years expertise in teaching and conducting research in Agricultural Entomology and Integrated Pest Management (IPM). He has served the University in different capacities including: - being a Founding Principal of the College of Agricultural and Environmental Science, Dean of Faculty of Agriculture, and Head of Department of Crop science. He is a dedicated research who has been a Principle investigator for over 20 research projects worth over US\$ 15 million. He has championed research in and application of Integrated Pest Management. He won an IPM Impact Award in recognition of his contribution towards the implementation of IPM for small-scale farmers in Uganda by the African Association of Insect Scientists. He has supervised 50 MSc and 6 PhD students to completion. He has over 90 publications in International Journals, 65 papers in conference proceedings, three chapters in 3 textbooks, and one handbook. He is founding Director of the Consortium for Enhancing University Responsiveness to Agribusiness Development (CURAD). He is a member of the Uganda Agricultural Chemicals Board, Ministry of Agriculture, Animal Industry and Fisheries, and Chairman of the Advisory Committee of the National Coffee Research Institute

Qualifications

- PhD in Agricultural Entomology, Makerere University, 1989

- Bachelor (Hons) of Science in Agriculture, Makerere University, 1980
- East African Advanced School Certificate of Education (Biology, Chemistry and Physics), Kabalega Secondary School, Masindi, 1976
- East African School Certificate of Education, St. Edward's Secondary School, Kakumiro, 1974
- Primary leaving certificate Grade A, Kyabasajja Primary School Primary, Kakumiro, 1970

Biography

Samuel Kyamanywa, holds a PhD in Agricultural Entomology from Makerere University, obtained under the African Regional Post graduate Programme in Insect Science (ARPPIS) at the ICIPE in Nairobi Kenya, and a BSc in Agriculture from Makerere University. He joined Makerere University 1993 as a lecturer and rose through the ranks to become a Professor in 2006. He has been teaching and conducting research in Agricultural Entomology and pest management for over 30 years. Between 2011 – 2013 he was appointed as Acting Principal to spearhead the establishment the College of Agricultural and Environmental Sciences through restructuring the Faculties of Agriculture, Forestry and nature Conservation, Makerere Institute of Environment and natural resource Management, and the Department of Geography. He was Dean Faculty of Agriculture, Makerere University. From 1998 to 2006 he was Head of Department of Crop science. He also served as Deputy Vice Chancellor of Kyambogo University. He was from 1989 to 1993, a Research Scientist at the International Centre of Insect Physiology and Ecology (ICIPE) in Nairobi Kenya. He is member of the Uganda Agricultural Chemicals Board, Ministry of Agriculture, Animal Industry and Fisheries, which is responsible for regulating pesticides use in Uganda. In 2012 he established the Consortium for Enhancing University Responsiveness to Agribusiness Development (CURAD) which is incubating youths to become business owners. He is happily married with 9 children.

Other Activities

Former posts held

- 2011- 2013: Principal, College of Agricultural and Environmental Sciences, Makerere University

- 2009- 2010: Dean, Faculty of Agriculture, Makerere University
- 2007 – 2008: Deputy Vice Chancellor (Academics), Kyambogo University
- 1998-2006: Head of Department, Crop Science, Faculty of Agriculture, Makerere University
- 2006 to Date Professor.
- 2001- 2006: Associate Professor, Faculty of Agriculture, Makerere University
- 1996- 2000: Senior Lecturer, Faculty of Agriculture, Makerere University
- 1993-1996: Lecturer, Faculty of Agriculture, Makerere University
- 1990-1993: Research Scientist, International Centre for Insect Physiology and Ecology (ICIPE), Nairobi, Kenya.
- 1989: Lecturer, Faculty of Agriculture, Makerere University
- 1987-1989: Assistant Lecturer, Faculty of Agriculture, Makerere University
- 1983-1986: Research Fellow, ICIPE
- 1980-1982: Graduate Research Fellow, Makerere University
- Jan-Jul 1977: Production Assistant in Uganda Computer Services., Ministry of finance, Kampala, Uganda

Membership to committees

- Chairman of the Taskforce Management Committee for Establishment of Bunyoro University as a Public university July 2022 to date
- Chairman of Technical Working Committee and Director of CURAD 2012 to date
- Chairman Advisory Committee of National Coffee Resources Research Institute – March 2014- to date
- Member of the Agricultural Chemical's Board of the Ministry of Agriculture Animal Industry and Fisheries Uganda 2013 to date.
- Member of Council of African Rural University -Kagadi . October 2013 to date
- Member of the Advisory Board of Centre for Sustainable Rural Livelihood (CSRL) of

IOWA State University from 2011 to 2014

- Coordinator of the Uganda IPM/CRSP project sponsored by USAID through Virginia Tech University, 1994 to 2014
- Chairman of the Agricultural Chemical's Technical Committee of the Ministry of Agriculture Animal Industry and Fisheries Uganda 2006 - 2013
- Chairman of the Makerere University Change Management Committee (2011-2012)
- Member of Council Kyambogo University (2006)
- member of the IPM/CRSP International Technical Committee representing Africa sites from May 1998 to 2004
- Chairman, for the first ever Integrated Pest Management Conference for sub-Saharan Africa which was held at Hotel Equatorial- Kampala Uganda from 8th to 12th September 2002
- Member of Senate, Makerere University (1998 –2002)
- Faculty of Agriculture representative to Senate Science Committee of Makerere University 1998 – 2002
- Chairman of the committee that organized the first East Africa Biosystematic formulation Workshop October 1996,
- Member of the organizing committee for the First Crop Science for Eastern and Southern Africa as Chairman of Programme committee (13 - 19th June 1993
- coordinator students research projects, and I developed strong links between the Department of Crop Science and the CIAT group in Uganda, 1989 - 1990
- Chairman of EAFRINET Co -ordinating loop (a loop of BIONET International
- Founder member of The BioNet-International Consultative Group
- Initiator, organiser and co-ordinator of the first Group Training Course on Pest Management in stored produce for business persons in Uganda

Membership to scientific organizations

- Member of the Uganda Society of Entomologist
- Member of the Soil Science Society of East Africa.
- Member of the Uganda Pasture Network.
- Member of the African Association of Insect Scientist
- Founding member of African Crop Science Society.
- Founding member of ARRPIS Scholars Association.
- Life member of the Uganda Society.
- Fellow of Uganda National Academy of Sciences
- Member of the American Society of Entomologists

Teaching

Undergraduate Courses

- Integrated Pest Management Systems for BSc Agriculture and BSc Horticulture
- Pesticide Application Technology for BSc. Horticulture

Postgraduate Courses

- Management of Post-Harvest Pests
- Advanced Insect Pest Management for PhD
- Insect Pest Management Systems for MSc

Short term group training courses including:

- Safe pesticide application and Handling course for applicators.
- Storage Pest management course.
- Integrated Pest Management for Extension Agents

Research

Some of the research projects, which have been undertaken recently, or are on-going, include:

- a. **Robusta coffee agroforestry to adapt and mitigate climate change in Uganda:** This is a collaborative project lead by Centre International de Recherche en Agronomie pour le Développement (CIRAD) -France. The project is funded by the European Union and is supporting 19 Post-graduates (MSc and PhD) at Makerere University. The project started in November 2021 and end November 2025. Makerere will

receive Euros 160,000 over the four years period. Prof Kyamanywa a co-PI on this project.

- b. **Climate smart agriculture in Sub-Saharan Africa:** This is a collaborative project involving Norwegian University of Life Sciences (NMBU), University of Juba (UJ), Zambia University and Makerere University. It started in December 2020 and will end in 2024. It is funded by NORAD through its NOREHD II program. The project is supporting 4 MSc and 2 PhD Students. Prof Kyamanywa is a Co-PI for Makerere with a team of five scientists from Makerere University including Assoc. Prof J. Bonabana, Prof F Kansime, Assoc. Prof Bamutaze, Prof A. Twaha,
- c. **Scaling up Integrated Pest Management strategies for Coffee/banana based cropping systems in Uganda**"-(7th July 2020 - 31st December 2025). Prof Kyamanywa is a PI. The project is supporting 3 MSc students.
- d. **Integrating ICT in Commercial Production of Quality Sweetpotato Planting Material In East Africa (ICOPSEA).** This is a USD 741,015 SIDA funded which started in January 2018 and ended in June 2021. It supported 4MSc and 1 PhD students. Prof Kyamanywa was the PI with Assoc Prof Mukasa as co-PI and Dr. P. Waswa as team member. The project has institutionalized commercial production of disease free sweet potato seed.
- e. **Entonutri: Development and Implementation Of Insect-Based Products To Enhance Food And Nutritional Security In Sub-Saharan Africa 2016-2019** This was GIZ funded, through ICIPE, collaborative project. Prof Kyamanywa was co-PI on this project. (US\$ 53,625) and it supported on PhD student from Tanzania.
- f. **Enhancing Commercialisation of Agricultural Research Outputs using the Agribusiness Incubation Model-Pasture seed systems commercialisation:** This project was supported under the Competitive Grant Scheme (CGS) of the National Agricultural Research System (NARS) of Uganda COHORT IV started 2015 and ended September 2018. Under this project 7 undergraduate/graduate student were incubated to be commercial pasture producers (Ug Shillings 261,900,000)
- g. **Regional Capacity Building for sustainable Natural Resources management and Agricultural Productivity under climate Change. (CAPSNAC)** The project funded by NORAD through NORHED; started in 2014 and ended in December 2021. Prof Kyamanywa was the PI coordinating Scientists from the Norwegian University of Life Sciences (NMBU), University of Juba, Addis Ababa University and Makerere University. The project supported 12 MSc and 10 PhD students registered at Makerere University and NMBU (NOKS 18,000,000)

- h. **Validation and dissemination of bio intensive eco-friendly management strategies for thrips – a critical constraint to cowpea production in Africa” (Contract No AURG/108/2012.)** Funded by African Union through the International Centre of Insect Physiology and Ecology (ICIPE) Nairobi. 2012-2015 (UE 75,900) the project supported 2 MSc students at Makerere University.
- i. **Consortium for Enhancing University Responsiveness to Agribusiness Development (CURAD).** Prof Kyamanywa is the PI of the DANIDA funded project (2012 to Date) (US\$ 2,000,000). Through this project Prof Kyamanywa established an Agribusiness Incubation Centre that is supporting youth to establish agribusiness. He ensured that entrepreneurship was main streamed in the curriculum of BSc Agriculture. The project has so far incubated over 71 new commercial businesses and created 1950 new jobs
- j. **Strengthening East African Resilience and climate Change Adaptation Capacity through training, Research and Policy interventions(2010- 2012).** Prof Kyamanywa was the PI of the Rockefeller funded project (US\$ 547,000). This project helped the College of Agricultural and Environmental Sciences to main stream climate science in its curriculum, and established the Makerere University Climate Change Research Centre.
- k. **Enhancing Food Security through Improved Seed Systems and Varieties of Cassava, Potato and Sweet potato Resilient to Climate Change in Eastern Africa (2010 – 2014):** Prof Kyamanywa was the PI of collaborative regional project supported by SIDA through the BioInnovate program (US\$ 270000). Through this project drought and resistant varieties of the above crops were identified. Supported 8 postgraduate students including Nuwamanya Ephraim, 10 papers published. Established and Equipped Tissue Culture and Biotechnology laboratories in the CAES
- l. **Towards Sustainable Cassava and Sweetpotato Production in Eastern Africa.** Prof Kyamanywa was the PI. This was under the BIO-EARN program supported by SIDA/SAREC (US\$377,000) started June 2006 and ended in 2009. Five East African regional research institutions were involved in this project. It promoted capacity building in Biotechnology in Faculty of Agriculture. 5 PhD students benefited from this project and over 10 scientific publications. Assoc. Prof S. Mukasa, Assoc Prof P.Okori and Dr Y.Baguma are the Ugandans who benefited from this project
- m. **Classic Biological Control of Maize stem borer.** This was an ICIPE and IPM CRSP Funded project which started in 2003 and ended in December 2006 (US\$ 65,000) Prof Kyamanywa was Coordinator . The project introduced a parasitoid, *Cortesia*

flavipes, which continues to control stalk borers in maize. 1 MSc and 1 PhD students benefitted from this project.

- n. **Seed Health Improvement Program (SHIP)**: This was DANIDA funded project which started in Jan. 2006 and ended in December 2008 (US\$ 62,000)
- o. **Inter-Host Plant Acceptability of Whitefly (*Bemisia tabaci*) and their capacity to Transmit Virus Diseases on Cassava, Sweet Potatoes, Beans and Cowpeas**. This was a NORAD supported project that started in March 2004 and was concluded in June 2006 (US\$50000).
- p. **Enhancing Judicious Use of Agrochemicals among small scale farmers (2003 to Nov 2006)**. Prof Kyamanywa was PI of an I@Mak.Com funded (US \$ 66,220) project. This project promoted safe use of pesticides. Dr D. Mubiru was partially supported by this project for MSc (Food Science studies) training
- q. **Potential of utilizing urban market crop wastes as soil amendments in integrated insect pest management in peri urban**". Prof Kyamanywa was co-PI of this SIDA/SAREC supported project. The first phase started in 2002 and ended 2005, The second phase started in January 2006 and end in 2009. Mrs J. K. Tumutegerize was a PhD student under this project (US dollar 55,000).
- r. **Integrated Pest Management Collaborative Research Support Programme (IPM CRSP) (US\$250,000/year for 21 years 1993- 2014)**: This project was a global programme, funded by USAID-Washington with Virginia Polytechnic and State University as the lead institution. Uganda site was one of the 9 IPM CRSP sites. Prof Kyamanywa coordinated its activities which were carried out in Makerere, University, Kawanda, Namulonge, and Serere Agricultural Research Institutes, MAAIF, Kenya Agricultural Research Institute, and Sokoine University of Agriculture. The project started in 1993; the first phase ended on the 30th September 2004, and the second one started January 2005 and ended 2009, and the 3rd phase ended in September 2014. Under the IPM CRSP Project, Prof Kyamanywa together with other scientists, researched on various aspects of integrated pest management of key crop species, including banana, beans, coffee, cowpeas, pepper, passion fruits, onions and tomatoes, over 20 scientific papers were published from this work and 22 post graduates completed their degree programs. Prof A. Kaaya, and Assoc.Prof J. Bonabana were among the beneficiaries.
- s. **Management of *Bemisia tabaci* on virus resistant cassava plants utilizing natural enemies (February 1st, 2003 to January 31st, 2006)** Prof Kyamanywa was Co-PI of this collaborative project between IITA-Namulonge (Dr. James Legg), Tel-Aviv

University (Prof Dan Gerling) and Makerere University which was supported by the Embassy of the United States of America in Tel Aviv (US\$62000). Two students, one PhD Mr. M. Otim, and another one MSc Mr Peter Asiimwe were supported by this project.

- t. **Strengthening IPM of the Management of Cassava Mosaic Virus Disease in East Africa (June 1st, 2000 to December 2002).** Prof Kyamanywa was PI of this Rockefeller funded project which supported two students Ms Betty Owor and Mr Michael Otim for their MSc Degree programme. 5 papers were published (US\$ 65,000).
- u. **Integrated Management of Pests of Common Beans in Uganda: Validation and participatory implementation of Economic Injury Threshold by bean farmers (From 2000 to 2002)** Prof Kyamanywa PI of this Rockefeller Foundation funded project. supported two MSc students Ms Barbara Zawede and Ms Josephine Mukiibi. (US 70,590)
- v. **Impact of an Exotic Parasitoid, *Cotesia flavipes* on *Chilo partellus* and its Ecological Effect on Non-target Lepidoptera in Uganda. (1st March 2001 to February 29th 2004)**". This was a Rockefeller funded project. I was the PI with one M.Sc. student Mr. Ivan Rwomushana and four undergraduate students. (US\$ 72,237.9)
- w. **Ecological Management of Leaf beetles *Ootheca* sp on common beans in Lira and Apach districts** -1999 Funded by International Centre of insect Physiology and Ecology (ICIPE) (US\$ 10,000).
- x. **Yield loss Assessment and Economic threshold levels of the Bean flower thrips on beans in bean/maize mixture (1989)** IFS funded project. (SEK 44 730)
 - Centre International de Recherche en Agronomie pour le Développement (CIRAD) –France
 - Norwegian University of Life Sciences (NMBU)
 - University of Juba (UJ)
 - International Centre of Insect Physiology and Ecology (ICIPE)
 - Addis Ababa University
 - BioInnovate Africa program
 - IPM CRSP
 - Kawanda Agricultural Research Institute
 - Namulonge Agricultural Research Institute
 - Kenya Agricultural Research Institute
 - Sokoine University of Agriculture.

Research groups and Centres

- IITA-Namulonge

Community based work

Prof Kyamanywa uses his free time to serve community through provision of leadership

- Founding Chairman of Kiwatule Anglican Community Cooperative Saving and Credit Society with over 120 members.
- Patron of youth a group in his home village known as BMKY. Through this group he is helping improve their livelihood through group saving, agriculture and business development
- Founding member and Chairman of 12 members Investment Club called BOTOKACH. Between 2015 and 2018 the group raised over UGX 350 Million for investment 100acre of land where plantation forestry is ongoing.
- Chairman of the Development and planning committee of St Johns Church of Uganda Kiwatule (2005 to 2014).
- Head of Laity for St Johns Church of Uganda Kiwatule (2014 to 2022)
- Chairman of the residents of RATNA Estate in Mombasa Kenya 1990-1992,
- Chairman of the Scout Council from 1973 – 1974
- Minister of Finance in the students Guild- Makerere University. .
- Founding Chairman Makerere University Farm Kabanyoro LC1
- **International IPM Excellence Award** 2009, offered by the 6th International IPM Symposium, Portland, Oregon USA on 26th March 2009
- **IPM Impact Award June 2003**, offered by the African Association of Insect Scientists in recognition of my contribution towards the implementation of Integrated Pest Management for Small scale farmers in Uganda.
- **Certificate of recognition** for organising an excellent and 1st Integrated Pest management conference for Sub-Saharan Africa, 8-12th September 2002 in Kampala Uganda
- **Certificate of recognition** awarded by the VC Makerere University for the excellent leadership provided to the Department of Crop Science.

Awards or special recognitions received

Publications

Papers published in international journals

1. Abondio R. B., A. J. Komakech¹, R. K. Kambugu, N. Kiggundu, J. Wanyama, A. Zziwa, S. Kyamanywa (2020). Assessment of Municipal Organic Solid Waste, as a Potential Feedstock for Briquette Production in Kampala, Uganda. *Journal of Sustainable Bioenergy Systems*, 2020, 10, 62-75 DOI:[10.4236/jsbs.2020.102006](https://doi.org/10.4236/jsbs.2020.102006)
- 2.
3. Abera, A., C. S. Gold and **S. Kyamanywa** (1997). Banana Weevil oviposition and

damage in Uganda. *African Crop Science journal*, Vol. 3. Pp. 1199-1205.

<https://hdl.handle.net/20.500.12478/6413>

4. Abera, A.M.K., C.S. Gold and **S. Kyamanywa** (1999). Timing and Distribution of Attacks by the banana weevil (Coleoptera: Curculionidae) in East African Highland banana. *Florida Entomologist* Vol. 82(4). <https://doi.org/10.2307/3496480>
5. Abera, A.M.K., C.S. Gold and **S. Kyamanywa (2000)** Banana weevil *Cosmopolites sordidus* ovipositional preference, timing of attack and larval survivorship in a mixed cultivar trial in Uganda. *Acta Horticulture* 540:487-495
6. Akello, J., T. Dubois, D. Coyne, and S. Kyamanywa The effects of *Beauveria bassiana* dose and exposure duration on colonization and growth of tissue cultured banana (*Musa* sp.) plants *Biological Control* 49 (1), 6-10 (2009)
DOI:10.1016/j.biocontrol.2008.06.002
7. Akello, J., T. Dubois, D. Coyne, and **S. Kyamanywa** (2008) Endophytic *Beauveria bassiana* in banana (*Musa* spp.) reduces banana weevil (*Cosmopolites sordidus*) fitness and damage *Crop Protection* 27 (11), 1437-1441.
<https://doi.org/10.1016/j.cropro.2008.07.003>
8. Akello, J, T. Dubois, D. Coyne, and **S. Kyamanywa** (2008) Effect of endophytic *Beauveria bassiana* on populations of the banana weevil, *Cosmopolites sordidus*, and their damage in tissue-cultured banana plants *Entomologia Experimentalis et Applicata* 129 (2), 157-165 (2008) doi.org/10.1111/j.1570-7458.2008.00759.x
9. Akello J, Dubois T, Coyne D and Kyamanywa S (2010) The pathogenicity of *Beauveria bassiana*: what happens after an endophytic phase in plants? *Communications in Agricultural and Applied Biological Sciences*, 75: 273 - 278.
PMID: 21539245
10. Alfonse Leonarda,b,c, James P. Egonyua, Chrysantus M. Tangaa, **S. Kyamanywa**, Henri Z. E. Tonnanga, Abdelmutalab G.A. Azraga, Fathiya M. Khamisa, Sunday Ekesia, Sevgan Subramaniana (2021). Predicting the current and future distribution of the edible long-horned grasshopper *Ruspolia differens* (Serville) using temperature-dependent phenology models. *Journal of Thermal Biology journal* Vol. 95 <https://doi.org/10.1016/j.jtherbio.2020.102786>
11. Alfonse Leonard, James P. Egonyu, C. M. Tanga, **S. Kyamanywa**, Sunday Ekesi, Fathiya M. Khamis, and Sevgan Subramanian. (2022). Host Plant-Based Artificial Diets Enhance Development, Survival and Fecundity of the Edible Long-Horned Grasshopper *Ruspolia differens* (Orthoptera: Tettigoniidae). *Journal of Insect Science* 22(2): 8; 1-7 <https://doi.org/10.1093/jisesa/ieac003>

12. Alfonse Leonard, James P. Egonyu, F.M. Khamis, C. M. Tanga, Sunday Ekesi, **S. Kyamanywa** and Sevgan Subramanian (2022) African Entomology is the journal of the Entomology Society of Southern Africa Identification and virulence screening of fungal and bacterial entomopathogens of the edible long-horned grasshopper *Ruspolia differens* (Orthoptera: Tettigoniidae) from Uganda. *African Entomology* 2022, 30: e11581 (7 pages) <https://doi.org/10.17159/2254-8854/2022/a11581>ISSN (online) 2224-8854
13. Amayo R., Arinaitwe A. B., Mukasa S.B., Tusiime G., **Kyamanywa S.**, Rubaihayo P.R. and Edema R. (2012). Prevalence of viruses infecting cowpea in Uganda and their molecular detection. *African Journal of Biotechnology*, 11(77): 14132-14139. DOI:10.5897/AJB11.398
14. Arinaitwe W., M. Ochwo-Ssemakula , W.K. Mbewe , P. Sseruwagi , **S. Kyamanywa** , M. Erbaugh , S. Miller And F. Qu () Molecular characteristics of tomato mosaic virus infecting tomato in Uganda. *African Crop Science Journal*, Vol. 26, No. 3, pp. 433 - 445. DOI: [10.4314/acsj.v26i3.8](https://doi.org/10.4314/acsj.v26i3.8)
16. Asiimwe P., Ecaat J. S., Otim M., Gerling D., **Kyamanywa S.** and Legg J. P. (2007) Life-table analysis of mortality factors affecting populations of *Bemisia tabaci* on cassava in Uganda. *Entomologia Experimentalis et Applicata* **122**, 37-44. doi.org/10.1111/j.1570-7458.2006.00487.x
17. Atukunda R., P. Sseruwagi , J. Karungi, **S. Kyamanywa**, M. Erbaugh and M. Ochwo-Ssemakula (2018) Farmers' knowledge of Passion Fruit virus diseases and their management in Central Uganda. *Africa Journal of Horticultural Sciences* . (June 2018) 13:53-64 ISSN 1998-9326
18. Byabagambi, S., **S. Kyamanywa** and M.W. Ogenga-Latigo (1999): Effect of fertilizer and mulching on bean infestation and damage by bean fly. *African Crop Science Journal*. 7 (4): 599-604. DOI: [10.4314/acsj.v7i4.27754](https://doi.org/10.4314/acsj.v7i4.27754)
19. Egonyu J.P., P. Kucel, G. Kagezi, J. Kovach, I. Rwomushana, M. Erbaugh R. Wekono, D. Salifu & **S. Kyamanywa** (2015) *Coffea arabica* variety KP423 may be resistant to the cerambycid coffee stem borer *Monochamus leuconotus*, but common stem treatments seem ineffective against the pest . *African Entomology* Vol. 23, No. 1, <https://doi.org/10.4001/003.023.0109>
20. Ekobu Moses, 1,2 Maureen Solera, 1,2 **S. Kyamanywa**, 1 Robert O. M. Mwanga, 3 Benson Odongo, 3,4 Marc Ghislain, 5 And William J. Moar (2010) Toxicity of Seven *Bacillus thuringiensis* Cry Proteins Against *Cylas puncticollis* and *Cylas brunneus* (Coleoptera: Brentidae) Using a Novel Artificial Diet *J. Econ. Entomol.* 103(3):

<https://doi.org/10.1603/EC09432>

21. Erbaugh, J. M., J. Donnermeyer, P. Kibwika and **S. Kyamanywa** (2002). An assessment of the integrated pest management collaborative Research Support Project's (IPM CRSP) activities in Uganda: Impact on farmer's awareness and knowledge of IPM skills. *African Crop Science Journal* 10(3): 271- 280.
<https://www.africabib.org/http.php?RID=Q00035495>
22. Frejus A. K. Sodedji, D. B. Kwemoi, G. Asea, **S. Kyamanywa** (2016). Response of provitamin-A maize germplasm to storage weevil *Sitophilus zeamais* (Motschulsky) *International Journal of Agronomy and Agricultural Research* Vol. 9, No. 5, p. 1-13, **ISSN 2223-7054(PRINT) 2225-3610 (ONLINE) <http://www.innspub.net>**.
23. Frejus A. K. Sodedji, D. B. Kwemoi, C. Lwanga Kasozi, G. Asea, **S. Kyamanywa** (2018). Genetic analysis for resistance to *Sitophilus zeamais* (Motschulsky) among provitamin-A maize germplasm. *Maydica electronic publication -2018* : 63-M14.
24. Ijala, A. R., **S. Kyamanywa**, S. Cherukut, C. Sebatta, J. Karungi (2019) Parasitism of *Hypothenemus hampei* (Coleoptera: Scolytidae) in different farming systems and altitudes of Mount Elgon, Uganda. *J Appl Entomol.* 2019;00:1–10. DOI: 10.1111/jen.12689
25. Ijala, A. R., **S. Kyamanywa**, S. Cherukut, C. Sebatta, T. Hilger, J. Karungi (2021) Can Occurrence and Distribution of Ground Beetles (Carabidae) Be Influenced by the Coffee Farming System in the Mount Elgon Region of Uganda? *Neotrop Entomol* **50**, 562–570 (2021). <https://doi.org/10.1007/s13744-021-00872-4>
26. Ijala A.R., S. Kyamanywa, C. Cherukut, C. Sebatta, T. Hilger And J. Karungi (2021) Host- plant and insect- pest compensations, and microclimate As drivers for intensity of *Toxoptera aurantii* (hemiptera:Aphididae) in arabica coffee-banana farming system of mountElgon region, Uganda *African Crop Science Journal*, Vol. 29, No. 2. DOI: [dx.doi.org/10.4314/acsj.v29i2.4](https://doi.org/10.4314/acsj.v29i2.4)
27. Johnsson M., A.R. Ijala, B.Ekobom, **S. Kyamanywa** and J. Karungi (2014) Contrasting effect of shade levels and altitude on two important coffee pests. *Journal of Pest Science*. DOI 10.1007/s10340-041-0615-1
28. Karungi J., N. Nambi, A. R. Ijala , M. Jonsson, **S. Kyamanywa**, and B.Ekbom (2015). Relating shading levels and distance from natural vegetation with hemipteran pests and predator's occurrence on coffee. *Journal of Applied Entomology* 139(9) · 667-678. doi.org/10.1111/jen.12203
29. Karungi, J., T. Obua, **S. Kyamanywa**, C.N. Mortensen and M. Erbaugh. 2013. Seedling protection and field practices for management of insect vectors and viral

- diseases of hot pepper (*Capsicum chinense* Jacq.) in Uganda. *International Journal of Pest Management* 59(2):103-110. doi.org/10.1080/09670874.2013.772260
30. Karungi, J., **Kyamanywa, S** and Ekbom, B. 2010. Organic soil fertility amendments and tritrophic relationships on cabbage in Uganda: experiences from on-station and on-farm trials, *African Journal of Agricultural Research*, Vol. 5(21), pp. 2862 - 2867.
 31. Karungi, J., Lubanga, U.K., **Kyamanywa, S** and Ekbom, B. 2010. Oviposition preference and offspring performance of *Crocidolomia pavonana* (Lepidoptera: Pyralidae) on different host plants. *Journal of Applied Entomology*, 134: 704–713. doi.org/10.1111/j.1439-0418.2010.01518.x
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