

Sunday Ekesi, PhD, FRES, FAAS - Curriculum vitae
([Google Scholar Citation](#))

Name: Sunday Ekesi

Nationality: Nigeria

Family status: Married

Language skills: English (fluent), French (basic)

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Designation: Director of Research & Partnerships

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Insect Physiology and Ecology (*icipe*),

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Synopsis and brief highlights of professional accomplishments. Sunday Ekesi is an entomologist, research for development scientist, and science leader with extensive knowledge and experience in sustainable agriculture (microbial control, biological control, habitat management/conservation, IPM, pesticide management), biodiversity and innovation ecosystems in Africa and internationally. His skill set includes, but is not limited to: research planning and execution; project management (coordination/steering); strategic planning for new research areas; product development (moving scientific knowledge into commercialization e.g. bait/biopesticide development); resource mobilization (grants and grantsmanship); budgeting and budget monitoring; research staff and student management and supervision; development and monitoring of agreements with partners; reporting; interacting with donors; stakeholder liaison; and knowledge transfer (capacity building, training, private sector partnerships). As Director of Research and Partnerships at *icipe*, he manages and provide science governance and leadership on implementation of the high-level strategic goals of the various Themes in line with *icipe's* vision and strategy. Sunday has been leading a continent-wide initiative to manage fruit flies in sub-Saharan Africa and he has successfully developed pre- and postharvest management methods that meet the demands of domestic and quarantine-sensitive export markets. The program has significantly improved the production of fruits and vegetables affected by fruit flies and increased net income of 200,000 smallholder farmers (1.2 million households) across sub-Saharan Africa. He has developed several biopesticides for use in IPM jointly with the private sector. In 2019 alone, these biopesticide products were applied on 132,994 ha of farmland by >53,198 farmers. This benefitted 212,792 households and minimized the use of synthetic pesticides which lead to environmental pollution and negative effects on both humans and biodiversity. Most recently, Sunday and his team have generated ground-breaking knowledge and technologies on the use of insects as alternative sources of protein for food and feed informing policy decisions and leading to the development of standards for the use of insects as protein additives in animal feed and food in Africa. The standards have enabled >300 small, medium, and large-scale feed producers to integrate insect-based protein into feed production. In 2020 alone, Kenyan-based entrepreneurs produce more than 2,220 metric tons of insect protein which equates to 4% of animal feed proteins demand in Kenya. He is also at the forefront of tackling invasive species (e.g., fall armyworm) and the desert locust in Africa. Sunday has published > 250 peer reviewed articles in scientific journals and given over 150 presentations at scientific gatherings. He has diverse experience and the skills required to work collaboratively in multi-disciplinary and multi-institutional settings including challenges and opportunities of working with smallholder farmers, extension agents, research organizations and the private sector to improve food and nutritional security. He is a Fellow of the Entomological Society of America (FESA), Royal Entomological Society (FRES)-UK, African Academy of Sciences (FAAS). He provides advisory services to the 1890 Universities Center of Excellence for Global Feed Security and Defense University of Maryland Eastern Shore, Virginia Tech University, CESAR Australia, International Atomic Energy Agency (IAEA), the Food and Agriculture Organization (FAO) of the UN, the World Bank (WB), and African governments on various programs on agriculture and health, biodiversity, climate change and innovation ecosystems in Africa.

Academic qualifications

1999 - PhD Crop Protection, Ahmadu Bello University, Zaria, Nigeria

1992 - MSc Applied Entomology and Parasitology, University of Jos, Nigeria

1989 - BSc Zoology, University of Jos, Nigeria

Awards and honours

2021: Fellowship of the Entomological Society of America (FESA), USA

2020: Curt Bergfors Foundation Food Planet Prize (part of a team of institutional programme recipient)

2020: *icipe@50* Achievement award
2019: BMGF Grand Challenges annual meeting call-to-action award
2018: Fellowship of the Royal Entomological Society (FRES), UK
2016: Outstanding Principal Staff Member of the Year Award, *icipe*
2015: Fellowship of the African Academy of Sciences (FAAS)
2015: Plant Health Theme, *icipe* Team of the Year Award (Leader & Head)
2003: Rothamsted International Fellowship, UK
1999: Fellowship, German DAAD

Advisory board membership

2021-present: 1890 Universities Center of Excellence for Global Food Security and Defense, Univ. of Maryland, ES, USA.
2020-present: Technical Committee on FAO-led Global Action for fall armyworm control, FAO, Rome, Italy.
2020-present: International Liaison Group, fall armyworm preparedness and control, CESAR Australia, GRDC.
2019-present: Scientific Advisory Committee, International Congress of Entomology (ICE2020), Helsinki, Finland.
2018-present: Fall armyworm R4D Consortium, CGIAR-led consortium to tackle fall armyworm.
2018-present: Virginia Tech IPM Innovation Lab, USAID (<https://ipmil.cired.vt.edu/team/>).
2017-present: BioInnovate Africa Program, SIDA (<https://bioinnovate-africa.org/about-us/>).
2016-present: Membership Advisory Committee, African Academy of Sciences (AAS).
2016-present: Regional program for fruit fly monitoring and control in West Africa, EU, CORAD/WECARD.
2015-present: Biovision Africa Trust (BvAT), Farmer Communication Program, Biovision Foundation.
2015-present: Biovision Push Pull sub-Saharan Africa project, Biovision Foundation.
2006-present: International Fruit Fly Steering Committee (IFFSC). [Tephritid-Fruit-Fly-Steering-Committees.aspx](#).
2014-2019: Integrated Biological control & Applied Research Program, EU.
2012-2017: Member, Kenya Standing Technical sub-Committee on Import and Export of Biological materials (KSTCIE).

Editorial/professional services

2014-present: Member, Editorial Board *Journal of Insects for Food and Feed*.
2011-present: Member, Editorial Board (Africa Regional Editor) *International Journal of Tropical Insect Science*.
2009-2013: Member, Editorial Board Newsletter of Tephritid Coworkers of Europe, Africa and the Middle East (TEAM).
2009-present: Member, Advisory Board *Organic Farmer Magazine*.
2007-present: Member, Membership Committee, Society for Invertebrate Pathology, California.
2004-2005: Member-at-Large, Fungus Division, Society for Invertebrate Pathology, California.

Administrative & management experience

2016-present. Director of Research and Partnerships. International Centre of Insect Physiology and Ecology (icipe), Nairobi, Kenya. Sunday Ekesi's roles and responsibilities in this position are:

- Develop strategies for, and management of *icipe*'s R&D and capacity building programmes, and advise the Director General on strategic planning and science governance matters;
- Provide scientific leadership and planning to implement and monitor a coherent research agenda and research portfolio consistent with the Centre's vision and strategy;
- Supervise the Centre's senior scientists, coach direct reports, and promote a culture of high performance and continuous improvement; Monitor staff performance and development goals, and oversee their professional development;
- Take the lead in monitoring the quality and relevance of science at *icipe*, ensuring that research is innovative and at cutting-edge, and that it yields publications in high impact journals and leads to concrete outcomes and impact;
- Oversee the implementation and management of research projects through the various stages of the funding cycle from proposal preparation to funding, execution, reporting and closure;
- Spearhead discussions on *icipe*'s key foci of upstream and downstream research and oversee the development of a strategic framework that can guide the Centre's research, capacity building, and resource mobilisation activities;
- Work with the Senior Management team to attract world class scientific staff and maintain a stimulating environment for teamwork, scientific interactions, and performance;

- Develop and oversee mechanisms for evaluating the potential of research products for intellectual property rights (IPR) protection and/or commercial development, and facilitate the evolution of relevant partnerships with the private sector;
- Take the lead in forging of partnerships and cooperation with international, regional and national institutions, including host country institutions and the private sector;
- Contribute to raising the profile of *icipe* through influencing at regional and global levels; Represent *icipe* externally as necessary;
- Provide support to the Director General with respect to external representation, position the Centre as a research leader, serve on committees, and analyse and respond to change;
- Contribute significantly to resource mobilisation, including building good donor relations, identifying funding needs and gaps, and supervising the development of project proposals;
- Prepare programme reports to the *icipe* Governing Council, donors and various stakeholders of the Centre; Ensure compliance with Centre policies and procedures, propose upgrades, and develop relevant policies and procedures; Authorise transactions and oversee budgeting and spending.

2005-2015 - Member, Senior Management Committee (SMC), International Centre of Insect Physiology and Ecology (icipe), Nairobi, Kenya. Primary responsibilities included:

- Directing the scientific operations of *icipe*, ensuring that it is well run and delivering the outcomes for which it has been set up. SMC supports the vision, purpose and aims of *icipe*.
- The Committee ensures that the fundamental values, the ethical principles and the strategic direction in which *icipe* operates, are strictly adhered to.
- Provide leadership to the organisation by participating in setting up strategic direction to guide the operational activities of *icipe* ensure effective management of *icipe* and its R4D activities; and continuously monitor the organization's R4D activities to ensure that they are properly aligned with the founding principles, objectives and values of the institution.

2005-2011; 2013-2018 - Head, Plant Health Theme, International Centre of Insect Physiology and Ecology (icipe), Nairobi, Kenya. Primary responsibilities include:

- Providing leadership and vision for the implementation of sustainable plant protection systems and natural resource management to improve nutrition and food security through IPM for pre- and post-harvest pests and parasitic weeds using predators, parasitoids, microbials and habitat management strategies
- Spearhead the development of a coherent vision for the Theme;
- Organize a Theme structure to cost-effectively utilize resources to meet *icipe's* research, capacity and institutional building needs;
- Ensure timely preparation of the Theme's annual work-plans, budgets, scientific and technical reports for donors in close collaboration with other relevant programs;
- Continually update skills and methodologies to keep up with global cutting-edge knowledge;
- Lead in the development of competitive proposals that target specific issues, especially those that will result in better delivery of services; Facilitating peer-review of the performance of Program Leaders;
- Supporting Programmes in Project development, partnership building and resource mobilization; Representing *icipe* competently and adequately in all fora;
- Initiating periodic reviews of Theme performance to ensure relevance and quality;
- Lead, manage and motivate Theme staff to ensure innovation and practice of good science that results in quality publications; Act as a spokesperson and representative of the Theme.

2007-2008 - Head, Animal Rearing and Quarantine Unit, International Centre of Insect Physiology and Ecology (icipe), Nairobi Kenya. Primary responsibilities included:

- Working closely with staff and government agencies from across Africa to ensure that policy and regulatory frameworks (including infrastructure, instruments and activities) that analyze and manage risks in the Unit (including animal life and health; plant life and health; and associated environmental risks) were adhered to the highest standard
- To provide for the physical health and behavioural needs of quarantined animals housed at the Animal Rearing and Quarantine Unit
- Ensure that the environment and care needed for the Unit was maintained to the highest standards
- Support staff as required by ensuring the efficient and effective operation of the Biocontainment unit and that Centre standards were maintained.

1999. Postgraduate Coordinator, Department of Crop Protection, Ahmadu Bello University, Zaria. Primary responsibilities included:

- To provide a high level of support for the postgraduate admissions process
- To provide support to the Faculty Head and Departmental staff on all aspects of program delivery
- To maintain the database of postgraduate student information including personal details and academic records
- To provide guidance and information on the program and the University to the students.

Research for development experience

Areas of Research Interest

Sunday Ekese carries out cutting-edge basic and applied research for development activities to improve food and nutritional security for smallholder farmers in Africa. His research interests are in the field of sustainable agriculture (bioecology, microbial control, biological control, habitat management/conservation, IPM, pesticide management), biodiversity and innovation ecosystems. He reveres opportunities for working with smallholder farming communities, extension agents, research organizations and the private sector to improve food and nutritional security. His R4D activities has focused on 5 main domains:

Bioecology and management of fruit flies in horticulture: Since 1999, he has been leading a continent-wide initiative to enhance the production of fruits and vegetables affected by fruit flies by developing IPM strategies for notorious fruit fly pests that hampers horticultural productivity. His work has identified a combination of pre- and post-harvest technologies to manage fruit flies ensuring that produce meet the demands of domestic and quarantine sensitive export markets.

Development of biopesticides as alternative to synthetic use in IPM: Through public-private sector partnerships, Sunday Ekese has successfully developed several *Metarhizium anisopliae*-based biopesticide products commercialized as Campaign®, for fruit flies, thrips, mealy bug and Fall armyworm control; Achieve® for spider mite control; Met 62® for aphid control and Met 7® for ticks control (see <https://realipm.com/products/>). These products are registered for use in > 10 African countries and undergoing registration in Canada, UK and US. In 2019 alone, the biopesticide products on 132,994 ha, by 53,198 farmers, thereby directly benefitting 212,792 grower household members (41% women) minimizing the overuse of synthetic pesticides improving the health of growers, farm workers and the consumer; and enhancing livelihoods and the rural economy. His biopesticide product development and accomplishments were aired on BBC Horizon in July/August 2016 (<http://www.bbc.co.uk/programmes/n13xtmg1>).

Insect for food and feed: Sunday Ekese has been at the forefront of developing evidence-based data to support the integration of insects as alternative sources of protein for food and feed. With generous funding from DANIDA, IDRC/ACIAR, BMZ, WOTRO, and the Rockefeller Foundation several insect species with high levels of protein, limiting amino acids (lysine, tryptophan, methionine), minerals (zinc, iron, selenium, copper), vitamins and phytosterols have been identified and appropriate feed formulations developed jointly through private sector partnerships for poultry, fish and pigs and data has informed policy leading to the development of standards for the use of insect protein additives in animal feed. The standards have enabled >300 small, medium, and large-scale feed producers to integrate insect-based protein into feed production. In 2020 alone, Kenyan-based entrepreneurs produce more than 2,220 metric tons of insect protein which equates to 4% of animal feed proteins demand in Kenya.

Impact of climate change on ecosystem services: His work also addresses the impact of climate change ecosystems services (pollination and natural enemies of pests) by filling critical gaps in knowledge related to climate and land change impacts and developing adaptation strategies towards it by building the capacity of local research and administrative organisations through research, training and dissemination. The research is undertaken along altitudinal gradients in the Eastern Afrotropical Biodiversity Hotspot (EABH).

Capacity development at graduate levels and national extension systems: Sunday Ekese has contributed to building human and organizational capital through training of graduate students to increase competitiveness, science leadership, economic growth and prosperity. He has trained >20 graduate students (17 PhDs, 7 MScs). Sunday Ekese advise national programs in >21 African countries on the development and implementation of IPM for horticulture and pulses. He has had numerous consultative visits to Asia, Europe, North America (Canada and USA) and several R&D outfits, and African National Agricultural Research Systems to discuss issues of food and nutrition security.

Programmatic science leadership experience

2004-present - Leader, African Fruit Fly Program (AFFP). International Centre of Insect Physiology and Ecology (icipe), Nairobi, Kenya. This continental-wide programme assessed the impact of fruit fly infestation on fruit and vegetable production in Africa and developed management and affordable technologies as alternatives to imported products based on attractants, biopesticides and traps, and implement them in diverse locations in > 15 African countries. Natural enemies of exotic fruit fly species were introduced from Hawaii and released across 10 African countries. A protein bait developed by the program has been commercialized and registered by a private sector company, Kenya Biologic (www.kenyabiologic.com). The facility produces 2000 litres of bait per day to meet the needs of horticulture growers across Eastern and Southern Africa. Over 700 extension staff, quarantine and private sector personnel were trained. The programme has significantly improved the production of fruits and vegetables affected by fruit flies and increase net income of 200,000 smallholder families (1.2 million households) in sub-Saharan Africa.

2012-2015 - Leader, Insects for Food, Feed and other uses Program (INSEFF). International Centre of Insect Physiology and Ecology (icipe), Nairobi, Kenya. Sunday Ekesi initiated the insect for food and feed activities at *icipe*. He led and implemented R&D activities related to edible insect mass rearing, nutritional analysis, post-harvest handling and processing, food safety, socioeconomics and marketing, leading to the developing of first policy and standards for the use of insects as protein feed ingredients in Kenya and Uganda. Following this success, several other Africa countries have begun the process of using data generated by the *icipe* programme to develop legislation and standard for the use of insect proteins as feed ingredients. He was among the group of scientists to first report an edible cricket, *Scapsipedus icipe*, complete new to science. This programme has demonstrated that at 5% inclusion of black soldier fly protein substitution in poultry feed alone, in Kenya, would result in demand of 115,000 tons of dry insect per year, translating into a market value of US\$103.5-115 million per year. This would potentially result in 14,328 jobs if each person produced 2 tons of fresh insects per month.

2003. Rothamsted International Fellow, Rothamsted Research, Hertfordshire, UK. My work activities included studying the interactions between the aphid pathogen, *Pandora neoaphidis*, pests and non-pest aphids, and predatory beetles. The research work has contributed to the utilization of non-pest aphids and predatory beetles for vectoring beneficial aphid pathogens to kill pest aphids in agricultural crops.

1999-2003. Postdoctoral Research Fellow. International Centre of Insect Physiology and Ecology (icipe), Nairobi, Kenya. Through this postdoctoral experience, Sunday Ekesi, isolated, identified, characterized various entomopathogenic fungi, mass them on cheap, locally available raw materials that he would later develop into biopesticides for the management of various pests on fruits and vegetables as highlighted above.

1992-1995 - Lecturer in Crop Protection. Ahmadu Bello University, Zaria-Nigeria. Sunday Ekesi taught undergraduate courses in (a) Agricultural Zoology, (b) Pests of Crops, (c) Integrated Pest Management. He also researched into entomological problems of cowpea and vegetable crops and developed economic threshold levels for major cowpea pests to guide management strategies.

1989-1990 - Tutor, National Youth Service Corps (NYSC) - Government Secondary School Giade, Bauchi State, Nigeria. He taught Biology at High School level and organized field demonstration experiments for students.

Grants & grantsmanship

Programmatic resource mobilization (>US\$53,000,000)

In all the projects listed below, I had responsibility for the full management of projects for which I was the Principal Investigator, and responsibility for managing the components specific to my institution (*icipe*) in those for which I was a Co-PI. Project management included, but was not limited to, research planning and execution, budgeting and budget monitoring, research staff and student management and supervision, development, and monitoring of agreements with partners, reporting, and interactions with donors

50. PI: Modelling crop yield loss to insect pests in a warming climate (2020-2021). Budget US\$200,000. Bill & Melinda Gates Foundation, USA.

49. Co-PI: Alien invasive fruit flies in Southern Africa; Implementation of a sustainable IPM program to combat their menaces (2019-2022). Cultivate Africa's Future (*CultiAF*) grant. Budget: CAD 2.4 million. Donors: ACIAR and IDRC-Canada

48. Co-PI: Upscaling of fruit fly IPM technology among smallholder fruit growers in East Africa (Phase V) (2019-2021). Budget: US\$300,000. Donor: Biovision Foundation, Switzerland.

- 47. Co-PI:** Developing, commercializing and scaling of biopesticides for integrated fall armyworm (FAW) management to improve the livelihoods of smallholder farmers (2019-2021). Budget: £500,000. Donor: DFID, UK.
- 46. Co-PI:** Promote sustainable management of *Tuta absoluta*, an invasive pest of solanaceous vegetables for food and nutritional security in East Africa (2018-2021). Budget: US\$800,000. Donor: African Union Research Grants - 2018; HRST/ST/AURG-II/CALL2/2018.
- 45. Co-PI:** Integrated pest management strategy to counter the threat of invasive fall armyworm to food security in eastern Africa (FAW-IPM) (2018-2022). Budget €7 million. Donor: EU.
- 44. Co-PI:** Testing business models for scaling insect-based protein feed for use in poultry farming and aquaculture in Kenya (SiPFeed) (2018-2020). Budget US\$600,000. Donor: The Rockefeller Foundation, USA.
- 43. Co-PI:** INSFEED2: Insect feed for poultry, fish and pig production in sub-Saharan Africa. Budget CAD1.1 million. Cultivate Africa's Future (*CultiAF*) grant. Budget: CAD 2.4 million. Donor: ACIAR and IDRC-Canada
- 42. Co-PI:** Establishing an emergency community-based fall armyworm monitoring forecasting early warning and management system (CBFAMFEW) in Eastern Africa (2018-2019). Budget: US\$233,750. Donor: FAO.
- 41. Co-PI:** Integrated pest and pollinators management (IPPM) to enhance productivity of avocado and cucurbits among smallholder growers in East Africa (2018-2020). Budget €1.2 million. Donor: BMZ.
- 40. PI:** Development of biopesticide for management of vegetable pests (2017) Budget: £150,000. Donor: DFID.
- 39. Co-PI:** Development of bio-acaricide for management of ticks on livestock (2017) Budget: £150,000. Donor: DFID
- 38. Co-PI:** *NutriFOOD*: Development and implementation of insect-based products to enhance food and nutritional security in sub-Saharan Africa (2016-2019). Budget: €1,200,000. Donor: BMZ
- 37. Co-PI:** Integrated biological control applied program – push-pull, tsetse, camel and fruit fly IPM to improve livelihoods (2014-2018). Budget: €15 million. Donor: EU
- 36. PI:** Strengthening citrus production systems through the introduction of IPM measures for pests and diseases in Kenya and Tanzania (SCIPM) (2015-2018). Budget: €1,200,000. Donor: BMZ
- 35. Co-PI:** INSFEED1: Insect feed for poultry and fish production in Sub-Saharan Africa (2014 - 2017). Cultivate Africa's future (*CultiAF*) grant. Budget: CAD 2.3 million. Donor: ACIAR and IDRC-Canada
- 34. Co-PI:** Improved application strategies for entomopathogenic fungi as biological control agents in integrated pest management (IPM) of agricultural pests (2015-2016). Budget: €145, 000. Donor: Volkswagen Foundation
- 33. Co-PI:** GREEiNSECT – Insect for green economy (2014-2017). Budget: DKK 9,994,500 ~ € 1,332,600. Donor: DANIDA
- 32. Co-PI:** Enhancing the livelihood opportunities of smallholder African indigenous vegetable producers through the development and implementation of IPM measures for arthropod and nematode pests (2014-2016). Budget: € 1,200,000. Donor: BMZ
- 31. Co-PI:** *Attraction in Action*: Using pheromones and other safe and sustainable management strategies to reduce losses from insect pests and plant diseases on vegetable legumes and leafy brassicas in Southeast Asia (2014-2017) Budget: €1,200,000. Donor: BMZ
- 30. Co-PI:** Development and implementation of a sustainable IPM and surveillance program for the invasive tomato leafminer, *Tuta absoluta* (Meyrick), in North and sub-Saharan Africa (2013-2015). Budget: €1,200,000. Donor: BMZ
- 29. Co-PI:** Management of the Asian fruit fly, *Bactrocera invadens* (Diptera: Tephritidae) in the Southern African Development Community (SADC) (2014-2015). Budget: US\$348,520. Donor: FAO
- 28. Co-PI:** Dissemination and promotion of fruit fly IPM technologies among smallholder mango growers – extension (2014-2015). Budget US\$200,000. Donor: Biovision, Switzerland
- 27. Co-PI:** Establishment of pilot commercial processing plant for food bait production for the management of fruit flies in Kenya within the framework of GIZ/BMZ Innovation Transfer into Agriculture – Adaption into Climate Change (ITAACC) (2014-2015) Budget: €300,000. Donor: BMZ
- 26. Co-PI:** CGIAR CRP 1.2: Integrated systems for the humid tropics (Humidtropics) – Fruit fly IPM component (2013-2014). Budget: US\$600,000. Donor: IITA/Consortium of donors
- 25. Co-PI:** Diversifying food systems - Horticultural innovations and learning for improved nutrition and livelihood in East Africa (HORTINLEA): A Globe – Global Food Security application (2013-2016). Budget: €200,000. Donor: BMZ
- 24. PI:** Fruit fly identification and management: capacity enhancement Tanzania NARS (2013). Budget: US\$45,000. Donor: IAEA
- 23. PI:** Group training course on fruit fly taxonomy, detection & management (2013). Budget: US\$16,000. Donor: USDA
- 22. Co-PI:** Impact of native and exotic fruit flies in Kenya and Tanzania and socio-economic assessment of their control using an integrated approach. (2012-2013) Budget: US\$210,000. Donor: *icipe* – internal competitive seed grant
- 21. PI:** Host plant relationships, temperature tolerance and mating compatibility studies in *Bactrocera cucurbitae* and *Ceratitits rosa* (2012-2013). Budget: €6,000. Donor: IAEA
- 20. PI:** Combating fruit flies and mango seed weevil through community-based implementation of a sustainable IPM program for mango in sub-Saharan Africa (2011-2013). Budget: €1,200,000. Donor: BMZ
- 19. Co-PI:** Enhancing horticultural productivity, incomes and livelihoods through integrated management of aphid pests on vegetables in sub-Saharan Africa (2011-2013). Budget: €1,200,000. Donor: BMZ

- 18. Co-PI:** Exploration for parasitoids of olive fruit fly (*Bactrocera oleae*) for shipment to US. (2011-2012). Budget: US\$19,562. Donor: USDA European Biological Control Laboratory
- 17. Co-PI:** Climate change impacts on ecosystem services and food security in Eastern Africa – increasing knowledge, building capacity and developing adaptation strategies. (2011-2015). Budget: €4,900. Donor: Ministry of Foreign Affairs, Finland
- 16. Co-PI:** Morphometric analysis, genetic characterization and mating compatibility studies among populations of *Bactrocera invadens* from different origins (2010-2011). Budget: €6,000. Donor: IAEA
- 15. Co-PI:** Dissemination and promotion of fruit fly IPM technologies among smallholder growers in Kenya (2011-2012). Budget: \$60,000. Donor: Biovision, Switzerland
- 14. PI:** Production of issue paper on fruit flies (2010). Budget: \$10,824. Donor: The World Bank
- 13. Co-PI:** Less loss, more profit, better health: reducing the losses caused by the pod borer (*Maruca vitrata*) on vegetable legumes in Southeast Asia and sub-Saharan Africa by refining component technologies of a sustainable management strategy (2010-2013). Budget: €1,200,000. Donor: BMZ
- 12. Co-PI:** Management and mitigation measures for the alien invasive species (*Bactrocera invadens*) in Mozambique (2009-2011). Budget: US\$298,000. Donor: FAO
- 11. Co-PI:** Post-harvest disinfestation of citrus against *Bactrocera invadens* (2008-2010). Budget: US\$10,000. Donor: Citrus Research International, South Africa
- 10. Co-PI:** Post-harvest disinfestation of avocado against *Bactrocera invadens* (2009-2010). Budget: US\$37,000. Donor: South African Avocado Growers Association
- 9. Co-PI:** Integrated management of major insect pests and diseases of cashew in east and western Africa (2009-2012). Budget: €1,193,000. Donor: BMZ
- 8. PI:** Development and implementation of a sustainable IPM program for major mango pest and opportunity for improving market and processing information in sub-Saharan Africa (2007-2010). Budget: €1,050,000. Donor: BMZ
- 7. PI:** Surveillance and management of *Bactrocera latifrons* in Kenya (2007-2009). Budget: €18,000. Donor: IAEA
- 6. Co-PI:** Surveillance and management of *Bactrocera invadens* in East Africa. (2003–2006). Budget: US\$345,000. Donor: FAO
- 5. PI:** Assessment of diet and determination of demographic and mass rearing parameters of laboratory colonies of four *Ceratitis* species indigenous to Africa and one *Bactrocera* species recently introduced into Africa (2005-2008). Budget: US\$ 5,000. Donor: IAEA
- 4. PI:** Exploration for parasitoids of olive fruit fly (*Bactrocera oleae*) for shipment to US. (2007-2008). Budget: US\$10,000. Donor: USDA European Biological Control Laboratory
- 3. PI:** Study of improved attractants for native African fruit flies of economic and quarantine concern (2004-2005). Budget: US\$10,000. Donor: IAEA
- 2. Co-PI:** Biointensive management options for thrips on horticulture. (1998-1999) Budget \$20,000. Donor: Kenya Flower Council.
- 1. PI:** Development of entomopathogenic fungi for the management of thrips on cowpea and horticultural crops. (1995-1999) Budget: \$30,000. Donor: German DAAD

Institutional resource mobilization (>US\$100,000,000)

Contribution as Director of Research & Partnerships - DRP (including but not restricted to strategic guidance to scientists [ideation, conceptualization, development & review of proposal prior to submission to donor], liaison with donors, budgeting and budget planning, among others).

List of publications

Peer-reviewed articles

2021

260. Khamis, F.M., Ombura, F.L.O., Ajene, I.J., Akutse, K.S., Subramanian, S., Mohamed, S.A., Dubois, T., Tanga, C.M. & **Ekesi, S.** (2021) Mitogenomic analysis of diversity of key whitefly pests in Kenya and its implication to their sustainable management. *Scientific Reports* 11: 6348. <https://doi.org/10.1038/s41598-021-85902-2>.
259. Tapa-Yotto, G.T.; Tonnang, H.E.Z.; Goergen, G.; Subramanian, S.; Kimathi, E.; Abdel-Rahman, E.M.; Flo, D.; Thunes, K.H.; Fiaboe, K.K.M.; Niassy, S.; Bruce, A.; Mohamed, S.A.; Tamò, M.; **Ekesi, S.**; Sæthre, M.-G. Global habitat suitability of *Spodoptera frugiperda* (JE Smith) (Lepidoptera, Noctuidae): Key parasitoids considered for its biological control. *Insects* 2021, 12, 273. <https://doi.org/10.3390/insects12040273>.
258. Tanga C.M., Ghemoh, C.J., Tonnang, H.E.Z., Suresh, S., Kimathi, E.K., Mohamed, S.A., Govender, P., Dubois, T., & **Ekesi, S.** (2021) Eco-climatic matching to guide foreign exploration and optimal release strategies for biological control agents of *Rastrococcus iceryoides* in Africa and Asia. *Biological Control*, 104603. <https://doi.org/10.1016/j.biocontrol.2021.104603>.

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3. **Ekesi, S.**, Lux, S., & Billah, M.K. (2007) Field comparison of food-based synthetic attractants and traps for African tephritid fruit flies. *LAEA Technical Document 1574*: 205-222

2. **Ekesi, S.** & Onyeka, J.O.A. (1995). Potential biocontrol agents of *Acanthacris ruficornis* Fabricius (Orthoptera: Acrididae) in Jos, Nigeria. pp. 56-58. In: *Insects and the Nigerian Environment. Proceedings of the 25th Annual Conference of Entomological Society of Nigeria*. Obafemi Awolowo University, Ile-Ife, Nigeria (Uvah, I.I. and Badejo, M.A. Eds.). Osun, Nigeria. 5-8 Decembe, 1993
1. Dike, M.C. & **Ekesi, S.** (1995). Panicle Insect Pests of Sorghum and their control in Samaru, Nigeria. pp. 247-248. In: *Panicle insect pests of Sorghum and Pearl millet*. Proceedings of an International Consultative Workshop. ICRISAT Sahelian Centre, Niamey, Niger (Nwanze, K.F. and Youm, O. Eds.). Patancheru, India. 4-7 October 1993

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1. **Ekesi, S.** (2010) Combating Fruit Flies in Eastern and Southern Africa (COFESA): Elements of a Strategy and Action Plan for a Regional Cooperation Program. Available at: <http://www.globalhort.org/network-communities/fruit-flies/>

Patent

1. Maniania, N.K., Nana, P. & **Ekesi, S.** (2017) Formulation and method for the control of ectoparasites. World Intellectual Property Organization (WIPO)/Patent Cooperation Treaty (PCT). International Publication Number WO2017/216 752 A1.

Dissertations

1. **PhD thesis.** Variability of pathogenic activity of entomogenous fungi (Hyphomycetes) towards the legume flower thrips, *Megalurothrips sjostedti* (Trybom) (Thysanoptera: Thripidae) and their potential for biological control. Ahmadu Bello University, Nigeria
2. **MSc thesis.** A comparative study on the ectoparasitic fauna of Imported hybrid cattle (Friesian breed) and Local white Fulani cattle in Vom, Plateau State, Nigeria. University of Jos, Nigeria.
3. **BSc thesis.** A study on the parasites and pathogens of some edible insects in Nigeria. University of Jos, Nigeria

Conferences, workshops, seminars

2021

155. Ekesi, S. (2021) Panellist – Future Foods at the 2021 Future Insight Days and Curious2022 – Future Insight Conference. July 12-14, 2020. Damstadt, Germany. Virtual meeting.
154. Ekesi (2021) Swedish International Cooperation Development Agency (Sida) Food system dialogue. May 11, 2021. Virtual meeting.
153. Ekesi, S. (2021) Swiss Agency for Development and Cooperation (SDC) Food system dialogue. April 27, 2021. Virtual meeting.
152. Ekesi (2021) IGAD drought disaster resilience and sustainability initiative (iddrsi) - 12th iddrsi platform steering committee and general assembly meetings. Sarova White Sand, Mombasa, Kenya. May 18-19, 2021. Physical/virtual meeting.

2020

151. Akutse, K.S., Mohamed, S.A., Khamis, F., Subramanian, S., & **Ekesi** (2020) *Metarhizium anisopliae* isolates as biological control agents of the tomato leafminer, *Tuta absoluta* (Lepidoptera: Gelechiidae) and compatibility with Tuta pheromone. Presentation at Annual Meeting of the Entomological Society of America (ESA) - Entomology 2020. November 11-25, 2020. Virtual meeting.
150. **Ekesi, S.** (2020) Technical Committee meeting. FAO Global Action on Fall armyworm. July 27, 2020. Virtual meeting.
149. **Ekesi, S.** (2020) Transforming Agricultural Research Funding Towards Sustainability. Biovision Foundation Virtual Roundtable Series. November 19, 2020.
148. **Ekesi, S.** (2020) icipe R4D structure and partnerships programme. Presentation at The Boris Mints Institute for Strategic Policy Solutions to Global Challenges, School of Social and Policy Studies, Tel-Aviv University, Israel. January 13-17, 2020.

147. Tonnang, H. **Ekési, S.** & Dubois, T. (2020). Modelling crop yield losses. Presentation at the Grand Challenges Annual Meeting (Virtual). October 19-21, 2020. New Delhi, India.

2019

146. **Ekési, S.** (2019) Overview of the history, R&D structure and partnership programmes of *icipe*. Presentation to: Delegation of the Committee on Education, Research and Technology Assessment of the German Bundestag (Federal Parliament). July 11, 2019. Nairobi, Kenya.
145. **Ekési, S.** (2019) Digital Agricultural Advisory Services (DAAS) project design workshop. Bill & Melinda Gates Foundation (BMGF). April 12-16, 2019. Addis Ababa, Ethiopia.
144. **Ekési, S.** (2019) Highlights of *icipe* biopesticide and bee health research. Presentation at: the European Commission Directorate General for International Cooperation and Development Offices (DEVCO). March 28, 2019. Brussels, Belgium.
143. **Ekési, S.** (2019) Expert group meeting on Protein sustainability in Africa. The Rockefeller Foundation, WWF, and National Centre for Ecological Analysis and Synthesis (NCEAS) – University of California, Santa Barbara. February 28-March 1, 2019. Cape Town, South Africa.
142. **Ekési, S.** (2019) African Plant Health Initiative (APHI) design workshop. Bill & Melinda Gates Foundation (BMGF). January 22-24, 2019. Addis Ababa, Ethiopia.
141. **Ekési, S.** (2019) Highlights of *icipe* Insect for Food and Feed Programme. GIZ/BMZ International Green Week. Panellist. January 18-19, 2019. Berlin, Germany.

2018

140. **Ekési, S.** (2018) 1st consultative meeting in preparation of the report on the environmental and health impacts of pesticides and fertilizers. October 12, 2018. UN Environment, FAO, Rome
139. Kelemu, S., & **Ekési, S.** (2018) Highlight of *icipe* R&D to the Norwegian Agency for Development Corporation (Norad). October 7-8, 2018. Oslo, Norway
138. Kelemu, S., & **Ekési, S.** (2018) Highlight of *icipe* R&D to the Finnish Ministry of Foreign Affairs (MoFA) and Presentation of *icipe* R&D at the World Food Day and Panel discussion, University of Helsinki. October 9-10, 2018. Helsinki, Finland.
137. **Ekési, S.** (2018) Resource Partners Consultative Meeting on Fall Army worm - Closing the Gap for the Effective Response to Fall Armyworm. June 23-26, 2018. FAO, Rome
136. **Ekési, S.** (2018) Next Gen working group meeting on Microbiome R&D in Arthropod. July 23-25, 2018. Ithaca, USA
134. **Ekési, S.** (2018) Citrus IPM partner meeting. July 27-30, 2018. Gainesville, Florida, USA
133. **Ekési, S.** (2018) Citrus IPM partner meeting. July 21-Aug 2. Weslaco, Texas, USA.
132. **Ekési, S.** (2018) Collaborative consultative meeting with Crop Defender. April 13-15, 2018. Windsor, Canada
131. **Ekési, S.** (2018) Expert consultative meeting on Next Gen Insect Management Summit. April 8-12, 2018. Des Moines, Iowa.
130. Isabirye, E.B., Kambura, C., Tanga, C.M., Khamis, F.M., Kilalo, D., Muthomi, J., Salifu, d., Rwomushana, I., Mohamed, S.A., **Ekési, S.** (2018) Composition and Host Utilization of Vegetable-Infesting Tephritids in Kenya. Poster: **10th International Symposium on Fruit Flies of Economic Importance**. April 23 – 27, 2018, Tapachula, Chiapas, Mexico.
129. Khamis, F.M., Malacrida, A.R., Mohamed, S.A., Ombura, F.L.O., Tanga, C.M. & **Ekési, S.** (2018) *Ceratitís quilicii* has more robust gut microbial and molecular dynamics than *Ceratitís rosa sensu stricto*. Presentation: **10th International Symposium on Fruit Flies of Economic Importance**. April 23 – 27, 2018, Tapachula, Chiapas, Mexico.
128. Cheseto, X., **Ekési, S.**, Beck, J.J. & Torto, B. (2018) Glutathione as a host marking pheromone of the African fly species *Ceratitís cosyra*. Poster: **10th International Symposium on Fruit Flies of Economic Importance**. April 23 – 27, 2018, Tapachula, Chiapas, Mexico.
127. Cugala, D. & **Ekési, S.** (2018) Nonhost status as a phytosanitary measure for banana and papaya to overcome *Bactrocera dorsalis* infestation and market access. Poster: **10th International Symposium on Fruit Flies of Economic Importance**. April 23 – 27, 2018, Tapachula, Chiapas, Mexico.
126. Tanga, C. M., T. Landmann, F. M. Khamis, B. E. Isabirye, H. E. Z. Tonnang, E. K. Kimathi, J. Kimani, S. A. Mohamed & **Ekési, S.** (2018) Tracking ecological niche suitability of the invasive tephritid fruit fly *Zengodacus cucurbitae* (Coquillett) and native *Dacus* spp. in Africa under climate change. Poster: **10th International Symposium on Fruit Flies of Economic Importance**. April 23 – 27, 2018, Tapachula, Chiapas, Mexico.
125. Mohamed, S.A., Isabirye, B., Hanna, R., Khamis, F.M., Tanga, C.M., Gnanvossou, D., Sarr, I., Cugala, D., Manrakhan, A., Mze, H., Preaduth, S. & **Ekési, S.** (2018) Parasitoid Based Control of Tephritid Fruit Flies in Africa: Lessons and Future Perspectives. Presentation: **10th International Symposium on Fruit Flies of Economic Importance**. April 23 – 27, 2018, Tapachula, Chiapas, Mexico.

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124. Wamiti, L. G., Khamis, F. M., Abd-alla, A. M. M., Ombura, F. O., Akutse, K. S., Sevgan, S., **Ekesi, S.** & Maniania, N. K. (2017). *Metarhizium anisopliae* infection reduces *Trypanosoma congolense* multiplication in *Glossina fuscipes fuscipes* and its ability to acquire or transmit the pathogen. Presentation: Fourth research co-ordination Meeting, Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture, "Enhancing Vector Refractoriness to Trypanosome Infection". 27th November – 1st December 2017, Tanga, Tanzania.
122. Kelemu, S., **Ekesi, S.**, Torto, B. & Masiga, D. (2017) Highlight of *icipe* R&D to improve food security and health in Africa. Invited talk: Bill & Melinda Gates Foundation (BMGF), October 23, 2017. Seattle, USA.
122. Mohamed, S. A., Akutse, K. S., Khamis, F., Jehle, J., Tiba, S. B., Kroschel, J. & **Ekesi S.** (2017) Susceptibility of the tomato leafminer, *Tuta absoluta* (Lepidoptera: Gelechiidae), to entomopathogenic fungi and granulovirus (Phopgv) isolates. Presentation: 22nd Meeting and Conference of the African Association of Insect Scientists. ARC, Wad Medani, Sudan, 23rd – 26th October 2017.
121. Idriss, G. E. A., Mohamed, S. A., Khamis, F., **Ekesi, S.** & Du plessis H. (2017) Host range and host preference and performance of *Tuta absoluta* (Meyrick) (Lepidoptera: Gelechiidae). Presentation: 22nd Meeting and Conference of the African Association of Insect Scientists. ARC, Wad Medani, Sudan, 23rd – 26th October 2017.
120. Guimapi, R. A., Mohamed, S. A., Okeyo, G. O., Ndjomatchoua, F. T., **Ekesi S.** & Tonnang H. E. Z. (2017) Modeling the spatio-temporal risk of invasion and spread of *Tuta absoluta* in Africa. Presentation: 22nd Meeting and Conference of the African Association of Insect Scientists. ARC, Wad Medani, Sudan, 23rd – 26th October 2017.
119. Agbodzavu, M. K., Lagat, Z. O., Gikungu, M., Akutse, K. S., **Ekesi, S.** & Fiaboe, K. K. M. (2017) Performance and host range of a new species of *Cotesia* sp. on key amaranth lepidopteran defoliators. Presentation: 22nd Meeting and Conference of the African Association of Insect Scientists. ARC, Wad Medani, Sudan, 23rd – 26th October 2017.
118. Kimemia, J. W., Ombura, L. O., Kusia, E., Khamis, F., Borgemeister, C., **Ekesi S.** & Sevgan S. (2017) Isolation and characterization of *Bionectria ochroleuca* as an entomopathogenic fungi from edible Saturniid in Kenya. Presentation: The 50th meeting of the Society of Invertebrate Pathology, UC San Diego, La Jolla California, 13th – 17th August 2017.
117. Kelemu, S., **Ekesi, S.**, Torto, B. and Masiga, D. (2017) Highlighting the African Insect Science for Food and Health - Operations on food security and health in Africa. Invited talk: World Bank Headquarters, October 4, 2017. Washington, USA.
116. Mohamed, S. A., **Ekesi, S.**, Wharton, R., Lux, S. A. & Overholt, W. A. (2017) Old and new host-parasitoid associations: parasitism of the native African and invasive fruit fly species. Presentation: The 5th International Symposium on Biological Control of Arthropods. Langkawi, Malaysia, 11th - 15th September 2017.
115. Muriithi, B., Mohamed, S. & **Ekesi S.** (2017) Economic impact of biological control of mango-infesting fruit flies: A case study of Kenya. Presentation: The 5th International Symposium on Biological Control of Arthropods, September 11th –15th, 2017, Langkawi, Malaysia.
114. Sevgan, S., Tanga, C. M., Kusia, E., Cerretti, F., Khamis, F., Copeland, R. S., Borgemeister, C. & **Ekesi, S.** (2017) Diversity of edible Saturniids (Lepidoptera: Saturniidae) and their parasitoids in Kenya. Presentation: The 5th International Symposium on Biological Control of Arthropods, September 11th –15th, 2017, Langkawi, Malaysia.
113. Tanga, C. M., Osuga, I. M., Torto, B., **Ekesi, S.**, Fiaboe, K. K. M. & Sevgan S. (2017) Healthy Snacks: An In-depth analysis of the dietary and therapeutic benefits of mopane worms (Lepidoptera: Saturniidae). Presentation: 3rd **INSECTA** International Symposium on Insects as Feed, Food and Non-Food, Berlin, Germany, 7th – 8th September 2017.
112. **Ekesi, S.** (2017) Management of fall armyworm in Africa. Invited talk: Das Bundesministerium für Wirtschaftliche Zusammenarbeit und Entwicklung (BMZ), June 13, 2017. Bonn, Germany.
111. **Ekesi, S.** (2017) *icipe* science and innovation to improve food and nutritional security in Africa. Invited talk: Swiss Agency for Development and Cooperation (SDC). May 23, 2017. Bern, Switzerland.
110. **Ekesi, S.** (2017) *icipe* science and innovation to improve food and nutritional security in Africa. Invited talk: Biovision Foundation, May 25, 2017. Zurich, Switzerland.

2016

109. **Ekesi, S.** & Manrakhan, A. (2016) Fruit fly Research and Development for subsistence, small and large scale commercial fruit production in Africa. Plenary Presentation: 3rd International Symposium of the Tephritid Workers of Europe, Africa and the Middle East. April 11-14, 2016. Stellenbosch, South Africa
108. Tanga, C.M., **Ekesi, S.**, Mohamed, S., De Meyer, M., & Khamis, F. (2016) Predicting the ecological niches and potential invasion risk of two natal fruit fly *Ceratitis rosa* Karsch (Diptera: Tephritidae) populations using phenology models. Presentation: 3rd International Symposium of the Tephritid Workers of Europe, Africa and the Middle East. April 11-14, 2016. Stellenbosch, South Africa
107. Khamis, F., **Ekesi, S.**, & Mohamed, S.A. (2016) Characterisation of the microbial symbionts diversity in highland and lowland populations of *Ceratitis rosa* in Kenya. Presentation: 3rd International Symposium of the Tephritid Workers of Europe, Africa and the Middle East. April 11-14, 2016. Stellenbosch, South Africa

106. Cugala, D., **Ekesi, S.** & De Meyer, M. (2016) Field assessment of attractiveness of dried fish sauce and palm sap for *Bactrocera dorsalis* and native fruit fly species (diptera: tephritidae) in Mozambique. Presentation: 3rd International Symposium of the Tephritid Workers of Europe, Africa and the Middle East. April 11-14, 2016. Stellenbosch, South Africa
105. Ndllela, S., Mohamed, S.A. & **Ekesi, S.** (2016) Post harvest measures against *Bactrocera dorsalis* (Hendel) in mango using hot water disinfestations treatment. Presentation: 3rd International Symposium of the Tephritid Workers of Europe, Africa and the Middle East. April 11-14, 2016. Stellenbosch, South Africa
104. Ndllela, S., Mohamed, S.A. & **Ekesi, S.** (2016) Evaluation of the interaction between the introduced parasitoid *Diachasmimorpha longicaudata* and the native parasitoid *Psytalia cosyrae* (Hymenoptera: Braconidae) under laboratory conditions in Kenya. Presentation: 3rd International Symposium of the Tephritid Workers of Europe, Africa and the Middle East. April 11-14, 2016. Stellenbosch, South Africa
103. Ndllela, S., Mohamed, S.A. & **Ekesi, S.** (2016) Release, establishment and dispersal of *Diachasmimorpha longicaudata* (ashmead) and *Fopius arisanus* (sonan): Hymenoptera: Braconidae, for the management of *Bactrocera dorsalis* in Kenya. Presentation: 3rd International Symposium of the Tephritid Workers of Europe, Africa and the Middle East. April 11-14, 2016. Stellenbosch, South Africa

2015

102. **Ekesi, S.** (2015) Management of Tephritid fruit flies in Africa: Strategy for a continental approach to dealing with the vermin. Keynote address: Regional workshop to development a management strategy for fruit flies in Africa. December 1-3, 2015. Johannesburg, South Africa
101. **Ekesi, S.** Mohamed, S.A., Khamis, F., Maniania, N.K. & Affognon, H. (2015) Bioecology and management of Tephritid fruit flies in Africa: State of the art and future perspectives. Keynote address: 21st Meeting and Conference of the African Association of Insect Scientists (AAIS). October 19- 23, 2015. Cotonou, Bénin
100. Akutse K.S., Fiaboe K.K.M., Van Den Berg J., Khamis F.M., Ombura, O.L., Gathage, J.W., **Ekesi, S.** & Maniania N.K. (2015) Fungal endophytes – isolation to application in pest management. Presentation: 21st Meeting and Conference of the African Association of Insect Scientists (AAIS). October 19- 23, 2015. Cotonou, Bénin
99. Akutse K.S., C.M. Tanga, Fiaboe K.K.M., Niassy S., & **Ekesi, S.** (2015) Effect of substrates on the development and survival of pre-pupae, pupae and adult emergence of black soldier fly *Hermetia illucens* (Diptera: Stratiomyidae). Presentation: 21st Meeting and Conference of the African Association of Insect Scientists (AAIS). October 19- 23, 2015. Cotonou, Bénin
98. Appiah, E.F., **S. Ekesi,** S.A. Mohamed, K. Afreh-Nuamah & D. Obeng-Ofori (2015) Effect host fruit substrate on preference and parasitism by two introduced opine parasitoids on *Bactrocera dorsalis*. Presentation: 21st Meeting and Conference of the African Association of Insect Scientists (AAIS). October 19- 23, 2015. Cotonou, Bénin
97. Bayissa W., **Ekesi S.,** Mohamed S.A., Kaaya G. P., Wagacha, J.M., Hanna, R. & Maniania N.K. (2015) Broad-based virulence of entomopathogenic fungi against aphid pests of crucifers and okra. Presentation: 21st Meeting and Conference of the African Association of Insect Scientists (AAIS). October 19- 23, 2015. Cotonou, Bénin
96. Mfuti, K.B., Subramanian, S., Niassy, S., Salifu, D., Plessis, H.D., **Ekesi, S.** & Maniania, N.K. (2015) Screening for attractants compatible with *Metarhizium anisopliae* for use in thrips Management. Presentation: 21st Meeting and Conference of the African Association of Insect Scientists (AAIS). October 19- 23, 2015. Cotonou, Bénin
95. Mohamed, S.A., Jurgen, K., Ensaf, M., Johannes, J., Mwatuni, F., Chermiti, B., Khamis, F. & **Ekesi, S.** (2015) Development of a sustainable IPM program for the invasive tomato leafminer, *Tuta absoluta* (Meyrick), in North and sub-Saharan Africa. Presentation: 21st Meeting and Conference of the African Association of Insect Scientists (AAIS). October 19- 23, 2015. Cotonou, Bénin
94. Mutune, B., **Ekesi, S.,** Niassy, S., Matiru, V., Bii, C. & Maniania N.K. (2015) Fungal endophytes as first line of defense against the bean stem maggot *Ophiomyia phaseoli* (Tyron) on *Phaseolus vulgaris* (L.). Presentation: 21st Meeting and Conference of the African Association of Insect Scientists (AAIS). October 19- 23, 2015. Cotonou, Bénin
93. Muvea, A.M., Meyhöfer, R., Maniania, N.K., Poehling, H-M., **Ekesi, S.** & Subramanian, S. (2015) Onion plants inoculated with fungal endophyte modifies the behavioral responses of onion thrips. Presentation: 21st Meeting and Conference of the African Association of Insect Scientists (AAIS). October 19- 23, 2015. Cotonou, Bénin
92. Nana, P., **Ekesi, S.,** Mumbi, M. & Maniania, N.K. (2015) On-host control of cattle ticks using *Metarhizium anisopliae* ICIPE 7. Presentation: 21st Meeting and Conference of the African Association of Insect Scientists (AAIS). October 19- 23, 2015. Cotonou, Bénin
91. Niassy, S., **Ekesi, S.,** Maniania, N.K., Moritz, G.B., W. Jan de Kogel & Subramanian, S. (2015) Evidence of active aggregation among sexes in bean flower thrips (*Megalurothrips sjostedti*) on cowpea (*Vigna unguiculata*). Presentation: 21st Meeting and Conference of the African Association of Insect Scientists (AAIS). October 19- 23, 2015. Cotonou, Bénin
90. Niassy, S., Affognon, H., Fiaboe, K.K.M., Akutse, K.S., Tanga, C.M. & **Ekesi, S.** (2015) Indigenous knowledge on edible insects to guide Research and Policy. Presentation: 21st Meeting and Conference of the African Association of Insect Scientists (AAIS). October 19- 23, 2015. Cotonou, Bénin

89. Niassy, S., Affognon, H., Fiaboe, K.K.M., Akutse, K.S., Tanga, C.M. & **Ekesi, S.** (2015) Some key elements on entomophagy in Africa: culture, belief and gender. Presentation: 21st Meeting and Conference of the African Association of Insect Scientists (AAIS). October 19- 23, 2015. Cotonou, Bénin
88. Nyasani, J.O., Subramanian, S., Poehling, H-M., Maniania, N.K., **Ekesi, S.** & Meyhöfer, R. (2015) Integrated management of western flower thrips on French beans by combined use of beneficial and imidacloprid. Presentation: 21st Meeting and Conference of the African Association of Insect Scientists (AAIS). October 19- 23, 2015. Cotonou, Bénin.
87. Tanga, C.M., **Ekesi, S.**, Govender, P., Nderitu, P.W. & Mohamed, S.A. (2015) Antagonistic interactions between the African weaver ant, *Oecophylla longinoda* and the parasitoid, *Anagyrus pseudococci*: implications in the suppression of the mealybug, *Rastrococcus iceryoides*. Presentation: 21st Meeting and Conference of the African Association of Insect Scientists (AAIS). October 19- 23, 2015. Cotonou, Bénin.
86. Tanga, C.M., Akutse, K.S., Fiaboe, K.K.M., Affognon, H.D., Niassy, S., S.A. Mohamed & **Ekesi, S.** (2015) Colour preference and substrate type selection by gravid females of the house cricket *Acheta domestica* (L.) (Orthoptera: Gryllidae). Presentation: 21st Meeting and Conference of the African Association of Insect Scientists (AAIS). October 19- 23, 2015. Cotonou, Bénin
85. Tonnang, H.E.Z, Salifu, D., Freudenberg, L.B., Subramanian, S., Affognon H., Niassy, S., Landmann, T.O., Ndjomatchoua, F.T., Borgemeister, C. & **Ekesi, S.** (2015) Advances in pest and diseases modeling - Overview of climate change impacts Analysis. Presentation: 21st Meeting and Conference of the African Association of Insect Scientists (AAIS). October 19- 23, 2015. Cotonou, Bénin
84. **Ekesi, S.**, Mohamed, S.A., Khamis, F., Maniania, N.K. & Affognon, H. (2015) *icipe* R&D activities on fruit flies: state of the art, challenges and gaps. Keynote address: IAEA Indian Ocean Fruit Fly Project. July 1-3, 2015, Bagatelle, Mauritius

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83. Roos, N., Owino, V., Kinyuru, J., Ekesi, S., Courtwright, G., Drew, D., Hanboonsong, Y., Vantomme, P., Chamnan, C., Olsen, S.B., Jensen, A.B. & Ayieko, M. (2014) GREEINSECT: a multidisciplinary research project on potentials and barriers for insect-farming for food and feed in Kenya. Presentation: Insect to Feed the World Conference, May 14-17, 2014. Ede, The Netherlands
82. **Ekesi, S.** & Mohamed, S.A. (2014) Autodissemination and Pathogen Dynamics in *Bactrocera invadens* Drew, Tsuruta & White: Screening, horizontal transmission and suppression in mango agroecosystem. Presentation: 9th International Symposium on Fruit Flies of Economic Importance (ISFFEI). May 12-16, 2014. Bangkok, Thailand

2013

81. **Ekesi, S.**, Tumuhaise, V., Mohamed, S.A., Ndegwa, P.N., Irungu, L.W., & Maniania, N.K. (2013) Commercial formulation of *Metarhizium anisopliae*-based biopesticide (Campaign®) reduces damage by *Maruca vitrata* on cowpea and increases grain yield. Presentation at the 46th Annual Meeting of the Society for Invertebrate Pathology, Pittsburgh, PA, USA. August 11-15, 2013
80. **Ekesi, S.** (2013) Prevention and containment of emerging diseases and pests in Africa: Perspectives on regional strategy. Presentation at the Brainstorming session on strategies for prevention and containing emerging diseases and pests in West Africa. Accra, Ghana. July 1-2, 2013
79. **Ekesi, S.** (2013) Fruit fly monitoring and management in East Africa – *icipe* experience. Presentation at the 2nd National Fruit Fly Conference, Chimoio, Mozambique. October 27-November 2, 2013
78. **Ekesi, S.**, Mohamed, S.A. & Khamis, F.A. (2013) Morphometric analysis, genetic characterization and mating compatibility studies among populations of *Bactrocera invadens* from different origins. Presentation at a IAEA/FAO meeting on Resolution of cryptic species complexes of tephritid pests to overcome constraints to SIT application and international trade. Tucuman, Argentina. August 24-31, 2013
77. Gnanvossou, R. Hanna, A. H. Bokonon-Ganta, S. Mohamad, & **S. Ekesi** (2013) Seasonal abundance and species diversity of tephritid fruit flies in male lure traps in Benin, West Africa. Presentation AT the 20th Biennial Conference of the African Association of Insect Scientist, Yaoundé, Cameroon, 28-31 October 2013
76. Gnanvossou, R. Hanna, A. H. Bokonon-Ganta, S. Mohamad, & **S. Ekesi** (2013) Release, persistence, and parasitism of *Bactrocera invadens* on bush mango, *Iringia gabonensis*, in Benin, West Africa. presentation in the 20th Biennial Conference of the African Association of Insect Scientists, Yaoundé, Cameroon, 28-31 October 2013

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