

## **CURRICULUM VITAE**

**PROF. CATHERINE NKIROTE KUNYANGA, BSc.  
(Hons) (UoN), MSc (UoN), PhD (UoN)**

Department of Food Science, Nutrition and  
Technology, University of Nairobi,  
P.O BOX 4420-00100, Nairobi.

Phone: +254 722873357

E-mail: [ckunyanga@uonbi.ac.ke](mailto:ckunyanga@uonbi.ac.ke)  
[nkirotekatie@yahoo.com](mailto:nkirotekatie@yahoo.com)

### **I. PERSONAL PROFILE:**

**Name:** Prof. Catherine Nkirote Kunyanga

**Nationality:** Kenyan

**Place of birth:** Nairobi County, Kenya

**Gender:** Female

**Religion:** Christian

**Language:** English and Swahili

Twitter: @DrKathyKunyanga

Linkedin: DrCatherineKunyanga

Facebook: Catherine Kunyanga

Google Scholar -

[https://scholar.google.com/citations?hl=en&user=G436DPcAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=G436DPcAAAAJ&view_op=list_works&sortby=pubdate)

Profile Website -

<https://profiles.uonbi.ac.ke/ckunyanga/>

<https://foodsecurityconsortium.com/about-us/>

<https://agrilinks.org/post/professor-catherine-nkirote-kunyanga-championing-food-safety-and-nutrition-kenya>

<https://ag.purdue.edu/food-safety-innovation-lab/>

## **PROFILE SUMMARY**

I am an Associate Professor in the Department of Food Science, Nutrition and Technology, Associate Dean, Faculty of Agriculture at the University of Nairobi (UoN) with a PhD in Food Science and Technology. I am also the Coordinator, Food Security Center (FSC), a center of excellence in agriculture and food security. I have over 18 years of experience in food safety across different value chains and have taught at UoN on the same for many years including attracting donor funded research projects. I am a course instructor, consultant, researcher and mentor as well as a trained food safety expert both academically and professionally with working experience involving several assignments in food safety, and standards like ISO 17021-1:2017, 17021-3:2017, ISO TS 22001:2017, ISO 19011:2018, ISO 9001:2015, ISO 22000:2018, ISO 14001:2018 and HACCP; standard development and review; training manual development and training or capacity building of MSMEs, FBOs, Farmers/farmer groups and other stakeholders in food safety in a number of assignments and countries. Some of them include African Caribbean and Pacific (ACP) countries namely Kenya, Tanzania, Uganda, Ghana, Botswana, Zambia, Mauritius, Rwanda, Ethiopia among others in the horticultural (fruit and vegetable), milk, tea and coffee, cereals and legumes and livestock sectors. I have supervised many postgraduate students (PhD and MSc) in food safety and quality with theses and journal articles published in peer reviewed scientific journals on different food value chains. My research areas include Food Science and Technology, Food Safety, Food and Nutrition Security, Food Biotechnology, Sustainable Food Systems, Postharvest Handling, and Human Nutrition/Health. My research is still ongoing and contributes towards use of sustainable food systems approach in a holistic, transdisciplinary, and interdisciplinary approach to promote consumption of the safe and nutritious foods for better nutrition and health outcomes. I am involved in several collaborative projects in various capacities which has provided me with skills in proposal writing, project management and planning and other competencies. I have been engaged in capacity building and training of the private sector, NGO, Government ministries and SMEs on food safety and food processing. Currently, am coordinating projects in food safety in informal settlements and school feeding programmes as well as contaminants in foods such as chemical residues like pesticides, mycotoxins among others.

## **2. EDUCATION HISTORY**

- **2009-2011:** Doctor of Philosophy (PhD), Food Science and Technology, University of Nairobi/University of Hohenheim
- **2003-2006:** Master of Science (M.Sc.), Food Science and Technology, University of Nairobi. **Distinction**
- **1998-2002:** BSc. Food Science and Technology, University of Nairobi. **First Class Honors**
- **1993-1996:** Kenya Certificate of Secondary Education (KCSE). **Grade A-**
- **1984-1992:** Kenya Certificate of Primary Education (KCPE)

### **3. ACADEMIC /PROFESSIONAL POSITIONS HELD**

- 2025 - 2028:** Adjunct Associate Professor, Department of Food Science, Nutrition and Technology, School of Health Sciences, South Eastern Kenya University.
- 2023 January - to date:** Associate Dean, Faculty of Agriculture, UoN.
- 2022 November - to date:** Associate Professor, Food Science and Technology  
Main job responsibilities include:  
Teaching, Research and Administration.
- 2018 February - 2022:** Senior Lecturer  
Main job responsibilities include:  
Teaching, Research and Administration.
- 2020 March - to date:** Coordinator, African Women Forum for Science and Technology (AWFST)  
Major duties:  
Assist the forum in addressing challenges facing African Women through STI.  
Mainstreaming innovation cultures amongst African Women.  
Encourage African women to empower themselves through STI and innovations.
- 2011 February- 2018:** Lecturer, Department of Food Science, Nutrition and Technology, Faculty of Agriculture, University of Nairobi
- 2010 Feb-2011 Feb:** Tutorial Fellow, Department of Food Science, Nutrition and Technology, Faculty of Agriculture, University of Nairobi
- 2008 Oct. -2010 Feb:** Part-time Lecturer, Department of Food Science, Nutrition and Technology, Faculty of Agriculture, University of Nairobi
- 2006 Oct.-2008 Feb:** Technical Nutrition Manager  
Bell Industries Limited
- 2005 March-2006 June:** Research Assistant, Food Research Office, University of Nairobi
- 2004 Aug-2004 Dec:** Research Assistant - Sorghum & Millets Food and Feed Systems Network (SORMIFFS), University of Nairobi 1
- 2003 June-2003 October:** Research Assistant, Population Services International (PSI).
- 2003 Feb-2003 May:** Quality Control technician, Unga Group Limited.

### **4. POSITIONS OF RESPONSIBILITY HELD**

- Panel expert for curriculum evaluation for Commission for University Education (CUE) Evaluation of the Proposed Curriculum for Bachelor of Science in Food Science and Technology of South Eastern Kenya University (SEKU) and Technical University of Mombasa (TUM).

- Convener, the 'Great Millet Quest', a UoN, Unilever and Farm to Market Alliance partnership, 2024 with MOU with UoN.
- Board of Governors member at Mwea Technical and Vocational Education and Training (TVET) Act No. 29 of 2013 appointed in 7<sup>TH</sup> November 2023 (Ref no. MOE/SDTVET/DTE/BOG/197/948).
- Board of Director, Avopro Limited, an Avocado oil processing company in Kenya.
- Mentor, Early Career Champions - ECC for University of Helsinki and UoN - new ECC mentees and mentors with talented and versatile group of young and experienced researchers from Nairobi and Helsinki.  
<https://blogs.helsinki.fi/earlycareerchampions/category/mentees-and-mentors/>
- National Task Team for Development of the National Post-Harvest Management strategy under Strengthening capacities for enhanced safe and sustainable post-harvest management of food by Ministry of Agriculture and Livestock and FAO, UN, 2023.
- Coordinator for University of Nairobi in the Food Security Centre (FSC) and the University of Hohenheim, Germany sponsored by DAAD through the Federal Ministry of Economic Cooperation and Development (BMZ).
- Coordinator of a Kenyan Pesticide Task force under the Route to Food Initiative who are a team of experts working to promote public health and environmental justice for accountability in relation to use of harmful pesticides.
- Member, representing UoN, ARUA, Center of Excellence in Sustainable Food Systems, ARUA-SFS, Resilient Partnerships for African Food Systems Research, ARU-SFS Implementation Committee (IC) Focus area (FA) 3: 'Provide 21st-Century Africa with safe, nutritious, consumer-driven food'.
- Technical committee member for the All African Postharvest Congress and Exhibition themed "Sustainable postharvest Management: Boosting Intra-African Agricultural Trade and Enhancing Food and Nutrition Security" hosted by African Union Commission, Addis Ababa, Ethiopia, 2023.
- Senator, Faculty of Agriculture Representative, University of Nairobi (2012 - 2021).
- Member, marketing and branding guidelines development for senate DVC AA and deans committee.
- Head of Section, Food Chemistry, Department of Food Science, Nutrition and Technology, University of Nairobi, 2014 - to date.
- Coordinator, Industrial projects, BSc. Food Science and Technology programme, University of Nairobi.
- Acting Chair, Department of Food Science, Nutrition and Technology, February to April, 2016.
- Senate Member, Programme Development Committee, November 2021.
- Senate Student Mentorship Committee, University of Nairobi
- Senate committee and representative, curriculum and quality assurance, CAVs, UoN, 2020-2021.
- Senate Committee Member, Communication, branding and Marketing Strategy, UoN, 2021.

- Senate Committee Member, Review of UoN Strategic plan, 2021.
- CAVS UoN@50 celebration sub-committee member representing FOA, 2021.
- College Committee Member on National Values and National Cohesion: Capacity building on corruption prevention, ethics and integrity, CAVs, UoN.
- College Committee Member for UoN Strategic Plan implementation, 2020.
- Committee member, College Plagiarism Committee, CAVS, 2018 - to date.
- Faculty of Agriculture Postgraduate Studies Committee member, Department of Food Science, Nutrition & Technology Representative (2013-2021).
- Member, organizing Committee AGRO Conference 2018 - 2021, Faculty of Agriculture, UoN.
- Member Faculty Sub-committee on Undergraduate Studies Admission
- Member, Steering Committee of the Africa Life Science Knowledge (ALSK) Hub.
- Committee member, Alumni Affairs and Professional Development Faculty of Agriculture, University of Nairobi, 2021.
- Chairman, Welfare, Faculty of Agriculture, University of Nairobi, 2021.
- Patron, Mentorship of Professional Organizations in the Faculty of Agriculture, Mentor and Chair of AFOSTEC, DFSNT.
- Faculty Committee member, Curriculum and Strategic Planning, Faculty of Agriculture.
- College Committee member, College committee for the Nairobi Innovation Week, College of Agriculture and Veterinary Sciences, 2015-2016.
- College Committee member, College Plagiarism Committee, CAVS.
- Appointed as College National Values Champion, CAVS, 2016
- Hon. Secretary and Deputy Secretary, Faculty Club House, University of Nairobi, 2016 - 2018
- Deputy Secretary, Faculty Club House, University of Nairobi (2011-2012)
- External examiner for Jomo Kenyatta University of Agriculture and Technology for PhD and MSc thesis examination and Board of Postgraduate Studies.
- Examiner, Food Science & Nutrition Programme, Department of Food Science and Nutrition, Karatina University
- External examiner, Ph.D. theses, University of the West Indies, St. Augustine, Trinidad and Tobago, West Indies
- External Academic Programme Peer Reviewer for South Eastern Kenya University (SEKU), 2021.
- Technical committee Member KEBS/TC 026 KS 5992/2008 KS 7304/2008 and KS 111056/1999 - Sensory Analysis Technical Committee 2021.
- Technical committee Member KEBS/TC 618: 2020, KS 618 and KS 2150 - Alcoholic Beverages Technical Committee 2020.
- Technical committee Member KEBS/TC 020-Food Labelling Technical Committee 2019 - 2021.
- Technical committee member for Kenya Bureau of Standards (KEBS) in development of standards for processed cereals, pulses & legumes, meat and meat products, soy textured products.
- Instructor in Experiential Field Training Program on Sustainable Land Use Management with Wangari Mathai Institute in Collaboration with the University of Copenhagen.

- Chair and Vice-Chair of Board of Management in two high schools in Meru County for mentorship of young girls.
- Chairman, Ray of Hope Kenya (ROHK), for social outreach in the community.
- Industrial Attachment at Brookside Dairies Limited. (08/2001-10/2001).
- Polling clerk with The Electoral Commission of Kenya. (05/1997-12/1997).
- Captain of University of Nairobi's women soccer team (1998-2002).
- Laboratory Captain Nkuene Girls High School (1994-1996).

## **5. MEMBERSHIP IN PROFESSIONAL SOCIETIES**

- Institute of Food Technologists (IFT), USA.
- American Society for Microbiology, USA
- Kenya Institute of Food Science and Technology (KIFST)
- Kenya Society of Microbiologists (KSM), Kenya.
- Tiana Professional and Business Forum Association, Kenya.
- Association of Food Scientists and Technologists, Kenya.
- African Women for Biosciences Forum (AWfB)

## **6. PROFESSIONAL AWARDS AND RECOGNITION.**

**2024:** Agrilinks - Professor Catherine Nkirote Kunyanga: Championing Food Safety and Nutrition in Kenya. Agrilinks contributor, Feed the Future Innovation Lab for Food Safety, January 30, 2024. <https://agrilinks.org/post/professor-catherine-nkirote-kunyanga-championing-food-safety-and-nutrition-kenya>

**2023:** UoN recognition for imaginative innovations "*Legume innovations for Food Nutrition and Agribusiness*" exhibited during the Nairobi Innovation Week, 17-19 May 2023.

**2023:** UoN recognition for imaginative innovations "*Spirit-based Alcoholic Beverages from Agave Americana plant for Drylands in Kenya*" exhibited during the Nairobi Innovation Week, 17-19 May 2023.

**2022:** Fellowship and Scholarship award by Baden-Württemberg Ministry of Science, Research and Arts Call "Science Cooperation Africa 2021/2022" for a research stay at University of Hohenheim in Summer 2022, funding scheme "Science Cooperation Africa 2021/2022: Research scholarships for excellent African scientists at the higher education institutions in Baden-Württemberg".

**2015:** Australia Awards Fellowship

**2009:** DAAD Scholarship (PhD research in Germany - University of Hohenheim, Stuttgart, Germany).

**2008:** DAAD Scholarship (PhD studies- University of Nairobi)

**2003:** University of Nairobi Scholarship for Master of Science Degree.

**1996:** Best overall student, Nkuene Girls High School.

**1995:** Best overall Students Congress in Science and Technology.

## **7. PROFESSIONAL SKILLS, COMPETENCES AND TRAINING EXPERIENCE.**

- Trained in ‘Whole Genome Sequencing’ at Mahidol University, Thailand in January, 2025 under the Feed the Future Innovation Lab for Food Safety, USAID.
- Trained food safety technical expert and consultant with professional competency for ISO 17021-1:2017, 17021-3:2017, ISO TS 22001:2017, ISO 19011:2018, ISO 9001:2015, ISO 22000:2018, ISO 14001:2018 and HACCP under Global Standards Resource (GRS) organization, USA.
- Expert trainer - Facilitation of the distance training on "Traceability - Intermediate level" for ACP countries - TP\_5.120.FR.DIS under COLEAD, Brussels, Belgium.
- Trained on Halal food standards and certification process during the University Network for Halal Food Security 2024 held in Thailand, Ministry of Foreign Affairs, under Thailand International Cooperation Agency (TICA) on 27 August - 1 September 2024.
- National Industrial Training Authority (NITA) registered and certified trainer (NITA/TRN/2542) in ISO 22000 Food Safety Management System (FSMS), Quality Management Systems (QMS), Good Agricultural Practices, Good manufacturing Practices (GMP) and Hazard Analysis Critical Control Point (HACCP) including organic, Halal and Kosher certification.
- Frontline Lloyd’s Register Foundation Impact Review on “Ignorance Kills. Maintaining Simple Food Safety Regulation can Prevent Food-Borne Disease and Save Lives.” Dr Catherine Kunyanga, UoN, Foundation-funded programme with the United Nations Food and Agriculture Organisation (FAO), helping educate the next generation of food safety professionals in East Africa and The Caribbean. Explore the #ImpactReview: <https://loom.ly/xGvzGpk>
- Member East Africa Technical Working Group for Development of Benchmarks for Food Safety Curriculum for EAC Universities under International Livestock Research Institute (ILRI).
- CITI program course: Social and Behavioral Responsible Conduct of Research (Curriculum Group) and Social and Behavioral Responsible Conduct of Research (Course Learner Group) 1 - RCR (Stage) under Collaborative Institutional Training Initiative. Verify at: [www.citiprogram.org/verify/?k2f531cdb-2e3f-493b-b2bd-6056253a1a9e-40607743](http://www.citiprogram.org/verify/?k2f531cdb-2e3f-493b-b2bd-6056253a1a9e-40607743).
- Training Certificate in ‘Introduction to Research Ethics’ of the TRREE training programme in research ethics evaluation.
- Certificate “Antimicrobial Resistance in the COVID-19 pandemic and post-pandemic period” World Society for Pediatric Infectious Diseases, WSPID Workshop, 8<sup>th</sup> July, 2021.
- COLEACP E-meeting SPS with NPPO’s from ACP countries - 19 January 2021, from 2 pm until 3:30 pm (UTC), “Use of the European system TRACES NT (Trade Control and Expert System New Technology) in ACP countries - main implications and challenges”, 2021.

- Certificate ‘Hygiene and Food Safety Advanced Level Training’, COLEACP E-Learning Platform, 2021.
- Certificate “Moving from face to face to digital training” and development of training material for “NPPO organization of official controls” under the Moodle platform by COLEACP from October to December, 2020.
- Training expert of ACP countries on NPPO Organization of Official Control (Reference 201173-CC-CATHY SFC) on “Animation of a digital training module on (FTh\_OOC) under the general framework COLEACP’ Fit For Market Programme and FFM program.
- Trained expert on Food Safety Quality Management and Organization of Official Control as an expert trainer of COLEACP, trained on in the training and animation techniques of COLEACP (Training of Trainers), and in the transposition of training to online training, including the development of online training materials. Highly Proficient in Module and E-learning animation of training.
- Coordinator and organizer of the “FSC Regional Hybrid Workshop” on “*The Responsible Governance of Innovations for Food Security*” under the Food Security Center, University of Nairobi, in collaboration with the Department of Politics and International Studies, University of Warwick on 25 and 26 March 2021 at CHAK Conference Centre in Nairobi, Kenya.
- Organizing committee, Uon@50 Webinar (Celebrating 50 Years of Academic Excellence), “The Impact of Covid-19 on Food Systems and Effects on Food and Nutrition Security. What Are the Opportunities During and Post the Pandemic?” with Hon Prof. Hamadi, Prof. Umezuruike Linus Opara, Dr. Nicholas Ozor and Prof. Gabriel Okafor on 7th October 2020.
- Trainer and instructor of workshop on Pedagogy, Andragogy and mentorship training programme for Centre for Pedagogy and Andragogy (CEPA) May -June, 2019 targeting lecturers from the CBPS, CAVS, CHS, CHSS, CAE, ODEL and CEES, University of Nairobi
- Trainer and instructor of workshop on Pedagogy, Andragogy and mentorship training programme for Centre for Pedagogy and Andragogy (CEPA) on 15<sup>th</sup> - 17<sup>th</sup> January, 2019 targeting lecturers from the College of Architecture and Engineering (CAE), University of Nairobi
- Trainer and instructor of workshop on Curriculum Development/Review and Constructive Alignment for Centre for Pedagogy and Andragogy (CEPA) on 31st October- 2nd November 2018 targeting lecturers from the College of Humanities and Social Sciences, University of Nairobi
- Organizer and coordinator of short course training on “Role of Technology, Policy Advocacy and Extension in addressing Food security” held on 10-12<sup>th</sup> October 2018 at the 844 building in the College of Agriculture and Veterinary Sciences, University of Nairobi.
- Organized the “Meat Festival Extravaganza”: Reducing Losses And Adding Value (Reload) under “Reduction of Postharvest Losses and Value Addition in East African Food Value Chains” project sponsored by the Federal Ministry of Education and Research (BMBF) in Germany.



- Organizer and coordinator of Regional Workshop for Food and Nutrition Security on “Youth and Innovation Summit: Sustainable Solutions towards ZERO Hunger in Africa” held on 25th-26th October, 2018 at the University of Nairobi in conjunction with the Food Security Center (FSC) of the University of Hohenheim in Germany and EXCEED (“Higher Education Excellence in Development Cooperation”), sponsored by DAAD.
- Organizer of food fortification workshop on “The Future of Food Fortification” held on 29<sup>th</sup> May, 2018 in the College of Agriculture and Veterinary Sciences, between University of Nairobi and industry/government stakeholders in food fortification and Texas University A&M, USA.
- Instructor, Livestock theme of postgraduate students from Copenhagen University and University of Nairobi during the Experiential Field Training Program on Sustainable Land Use Management (SLUSE), 2018 and the Wangari Maathai Institute for Peace and Environmental Studies, March, 2018 in Othaya Nyeri County.
- Visiting Lecturer, University of Abomey-Calavi in Benin under the Food Security Center (FSC), University of Hohenheim sponsored by DAAD Module 3 (November, 20 - 25, 2017): Food & Nutrition security: Assessment of nutrition status and disease-related malnutrition; chronic, transitory and cyclical, acute and temporary food insecurity; nutrition gaps, Global Hunger Index, Hidden Hunger Index, dietary diversity index, Omega-3; prospects and tools for eradication.
- Local organizing committee member and Chairman of the Postharvest Technologies and Innovations Challenge appreciation in the All-Africa Postharvest Congress and Exhibition “Reducing postharvest losses: Sustainable Solutions for Africa”, held annually in Africa.
- Lecturer Didactic Training Workshops under PREPARE BSC project and CEPA.
- Facilitator and trainer for Internal Dissemination Workshop for PREPARE-BSC Project “Sharing Results, Experiences, Lessons Learnt and Achievements” and CEPA held on 13 April, 2017, at central catering unit (CCU), University of Nairobi under PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
- Trained on technical evaluation in the context of the Public Procurement and Asset Disposal ACT, 2015 held on Monday April 10, 2017 at the Central Catering Unit (CCU) Hall.
- Supervisor and trainer in Implementation of Sustainable Land Use and Natural Resource Management (SLUSE) and Interdisciplinary Land Use and Natural Resource Management (ILUNRM) under the Wangari Maathai Institute for Peace and Environmental Studies, March, 2017 in Kibugu Location, Embu County
- Trained on “Sensitization Training for Technical Evaluation Committees in the context of Public Procurement and Asset Disposal Act, 2015” held on 10th April, 2017 at Central catering Unit (CCU), University of Nairobi.
- Trained on “ICT in Research Grants Management Information Systems (RGMIS) for University of Nairobi” on 2nd May 2017, CAVs
- Training on Staff capacity building aimed at improving student retention and student qualification with course in ‘Lecturer didactics’; ‘Experiential learning

method'; and 'Problem based learning' with course weight of 7.5 ECTS under the PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).

- Training course on "Commercialization of research and innovations" during the Nairobi Innovation Week held on 1-2 August 2016 at Nairobi Safari Club (Lilian Towers).
- Trainer/facilitator in Pedagogy Training Workshop under the Centre for Pedagogy and Andragogy (CEPA) and PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II) on 2<sup>nd</sup> - 4<sup>th</sup> February, 2016 in CCU, University of Nairobi
- Facilitator and coordinator of short course programme on "Economic Modelling for Food Security Analysis" held on 14<sup>th</sup>-18<sup>th</sup> December 2015, at 844 building, Department of Agricultural Economics, University of Nairobi sponsored by DAAD.
- Trainer in "Aflatoxin in Food and Feeds Sampling and Proficiency Testing in Kenya" for CHROMAFRICA LLC/LGC-UK, 7<sup>TH</sup> - 11<sup>TH</sup> December, 2015.
- Trainer/facilitator in Lecturer Didactic Training Workshop under the PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II) on 24<sup>th</sup> - 25<sup>th</sup> September, 2015 in College of Agriculture and Veterinary Sciences, University of Nairobi
- Training of Trainers in pedagogy and didactics under the PREPARE-BSC project, workshop meeting in Sokoine University, Tanzania, June 21-27, 2015
- Australia Awards Fellowship on "Improving Agricultural productivity through Increasing the Impact of Agricultural Research in Africa" at The University of Sydney on 27<sup>th</sup> April to 28<sup>th</sup> May, 2015.
- Summer School DAAD Alumni on Special project "Agritechnica 2013" Agricultural Engineering for Food Security and Resources Conservation by DAAD and Universität Hohenheim, Institute of Agricultural Engineering Tropics and Subtropics Group held on November 04-15, 2013.
- Training of Trainers (TOT) on "Risk Communication". Arusha, Tanzania, August 26<sup>th</sup> to 30<sup>th</sup>, 2013. Safe Food in ACP 'Des Aliments Sûrs en ACP' Program funded by the EU, UN programme Finance Parl'ue (EDES).
- Training of Trainers (TOT) on "Organization of Official Controls in the Food Safety System, Implementation of Official Controls and the Organization and Methodology of Risk Assessment". Brussels, Belgium, April 15<sup>th</sup> to 26<sup>th</sup>, 2013. Safe Food in ACP 'Des Aliments Sûrs en ACP' Program funded by the EU, UN programme Finance Parl'ue (EDES).
- Safe Food in ACP 'Des Aliments Sûrs en ACP' Program funded by the EU, UN programme Finance Parl'ue (EDES) - Training on Risk Communication in Nairobi, Kenya, November 26<sup>th</sup> to 30<sup>th</sup> 2012.
- Safe Food in ACP 'Des Aliments Sûrs en ACP' Program funded by the EU, UN programme Finance Parl'ue (EDES) - Training on Organization and Methodology of Health Risk Assessment in Nairobi, Kenya, November 19<sup>th</sup> to 23<sup>rd</sup> 2012.
- Safe Food in ACP 'Des Aliments Sûrs en ACP' Program funded by the EU, UN programme Finance Parl'ue (EDES) - Training on Execution of Official Controls in Nairobi, Kenya, October 1<sup>st</sup> to 5<sup>th</sup>, 2012.

- Program on Sampling and Analysis Methods used in the context of Official Food and Feed Controls - Training on Microbiology Food Testing in Madrid, Spain, 18 - 29 June 2012.
- Program on “Applied Solar Technology in Developing Countries” held in Witzenhausen, Germany on 4<sup>th</sup> - 15<sup>th</sup> June 2012 organized by the University of Kassel and the German Institute for Tropical and Subtropical Agriculture (DITSL), Germany under the German Academic Exchange Service.
- PhD supervision training workshop by PREPARE-PhD Project under an EU-funded project entitled “Promoting Excellence in Ph.D. Research Programmes in East Africa” held on 13th July, 2011 in the University of Nairobi.
- Partner Alliance and Grants management training under the Kenya Horticulture Competitiveness Project (KHCP) funded by USAID (6<sup>TH</sup> - 7<sup>TH</sup> October, 2011 at Methodist Guest House).

## **8. COLLABORATIVE RESEARCH PROJECTS AND ASSIGNMENTS**

- PI, UoN, Erasmus+ Programme for Mobility of higher education students and staff between EU Member States and third countries associated to the Programme and third countries not associated to the Programme between UoN and University of Helsinki funded by EU, 2021-2027.
- Project lead, Africa Diaspora Fellowship program for Collaborative project in Agriculture and Food Science addressing Food Security with McGill University, Canada sponsored by Carnegie African Diaspora Fellowship Program (CADFP), 2025.
- PI, UoN “Wet markets as “amplifiers” of antimicrobial-resistant pathogens in Nairobi, Kenya: building the evidence base for targeted interventions to protect human health” with ILRI and Rollins School of Public Health, Emory University under MP3 award initiatives. 2025. REF. ID: 18B8DA78-2B13-42F9-ADA1-9B4BD89BD7C1.
- PI, UoN, “Baseline Microbial Food Safety Assessment of the Kenya Poultry Value Chain” in collaboration Purdue University, University of Nairobi and Kenya Medical Research Institute (KEMRI) under Feed the Future Innovation Lab for Food Safety (FSIL), a collaborative funding opportunity by the United States Agency for International Development (USAID) under Cooperative Agreement Federal Award No. 7200AA19LE00003. Total funding \$149,693.15/-.
- PI and Project advisor, “Empowering Tomorrow’s Food Security Leaders: Strengthening Higher Education Capacity for Sustainable Food Systems in Kenya and Mozambique” funded by the Ministry of Foreign Affairs’ information system under the intervention code 89893047, HEP- Partnership Programme, application number HEP 1/42/318/2023. Project aid HEP 2023-26 1/42/318/2023, 2024. Total funding EURO 1,100,000.00/-.
- CO-PI, UoN, “Sustainable and Efficient Insect Production for Livestock Feed through Selective Breeding (FLYgene)” (Project file no.: DFC project no. 21-09-AU with a total funding cost of DKK 11,999,759) funded under the Danida Fellowship Centre (DFC) responsible for the administration of development

research grants for the Ministry of Foreign Affairs of Denmark (MFA) from 1st April 2022 to 31st March 2027.

- Joint research project with University of Hohenheim on “Digital Animation and E-Learning Module for Food Safety Management”, sponsored by the Baden-Württemberg Ministry of Science, Research and Arts within its funding scheme “Science Cooperation Africa 2021/2022: Research scholarships for excellent African scientists at the higher education institutions in Baden-Württemberg”.
- Coordinator, Food Security Center, UoN, “Capacity building in food and nutrition security in SAGEARP (ACCPAC)” under Food Security Centre (FSC), University of Hohenheim, funded by DAAD in the University of Hohenheim, Germany, 2010 to date.
- PI, 2020. “Safety of produce and informally processed foods consumed by infants and young children in Nairobi and Makuani” project by International Food Policy Research Institute (IFPRI) in collaboration with UoN and University of Iowa, funded by Consultative Group for International Agricultural Research (CGIAR) Research Platform on Agriculture for Nutrition and Health (A4NH), Research Agreement (203004.003.311-515-01-01) Contract No. 2020x170.Uon
- PI, UoN, 2020. “Chakula Salama: a risk-based approach to reducing foodborne disease and increasing production of safe foods in Kenya” in collaboration Ohio State University and KEMRI under Feed the Future Innovation Lab for Food Safety (FSIL), a collaborative funding opportunity by the United States Agency for International Development (USAID) under Cooperative Agreement Award No. 7200AA19LE00003 implemented by Purdue University (lead institution) and Cornell University.
- Researcher, UoN 2020. “Earth observation and environmental sensing for climate-smart sustainable agropastoral ecosystem transformation in East Africa - ESSA” under Climate-relevant Development-Smart Innovation through Research in Agriculture to be funded under the 2019 (or 2020) Global Public Goods and Challenges Programme, 2021.
- Co-PI, “Improving Farm Profitability and Household Incomes of Mango Farmers in Kenya with Silicon” project under the Research England Global Challenges Research Fund In collaboration with Cambridge University, UK, award reference, G108162/A21232; GCRF QR Funding 2020-21.
- PI, UoN, “Technological Risks in Development: Food Security, Super-Wicked Problems, and the Decolonization of Technological Governance”. Knowledge Frontiers: International Interdisciplinary Research 2020 (Grant reference - KF400226-63880) in collaboration with University of Warwick, UK.
- PI, UoN and Lead Party, 65214, Ethics: technological risk governance and food security, Research award from the “Institute for Global Sustainable Development (IGSD)” (Higher Education Funding Council for England), in collaboration with Warwick University UK, Grant reference: AH/T007982/1, 2020.
- Co-PI, “Synergistic Climate-Smart Technologies, Innovations and Management Practices for Sustainable Greenhouse Tomato Production in Kenya”, KCSAP CGS/CRGs-AD 2019/CSC/01-8/ Tomato, KCSAP Collaborative Research Grants.

- Co-investigator, “Validation and promotion of integrated climate-smart green gram technologies for improved livelihoods in Kenya” KCSAP CGS/CRGs-AD 2019/CSC/01: CLIMATE SMART CROPS, KCSAP Collaborative Research Grants.
- Co-PI, “Mango Value Addition: An Opportunity to Improve Household Incomes for Small Scale Mango Farmers in Kenya” project under the Research England Global Challenges Research Fund, in collaboration with Cambridge University award reference G102642/A18879, 2019.
- Co-PI, Rockefeller Foundation Project: Strengthening African Food Processors (SAP) to Reduce Food Losses in collaboration with University of Nairobi and Purdue University, USA, 201841000438-029; [Grant 41000438]. Design and installation of solar dryers for mango processing in Kenya.
- Co-investigator, “Harnessing the genetic resources of Sorghum (*Sorghum bicolor* L) in Kenya to improve drought tolerance and Striga resistance of farmer preferred cultivars for climate change adaptation by utilizing innovative genomic, value chain and participatory approaches” National Research Fund (NRF) Multidisciplinary Research Grant, 2016-2017.
- Lead Investigator and service provider for delivery of Training for Businesses on Basic Nutrition Principles for SMEs and businesses in Asia and Africa in June 2020 under Scaling Up Nutrition movement for SUN Business Network (SBN) convened by the Global Alliance for Improved Nutrition (GAIN) and the UN World Food Programme (WFP).
- Lead Investigator and service provider for Development of a Food Safety Manual for SMEs in fruits and vegetables, cereals and legumes, and animal foods for Postharvest Loss Alliance and Nutrition (PLAN) under the Global Alliance for Improved Nutrition (GAIN), 2020.
- Lead Investigator and service provider for “Product Evaluation and QC/QA manual development and Consumer and assessment/ preference study for food processing entrepreneur/SME (Wimssy Dairy Limited)” for Global Alliance for Improved Nutrition (GAIN) under the Marketplace for Nutritious Foods project, 2020.
- Lead Investigator and service provider for Product Development of a Pre-Cooked ‘Ugali’ Product - “Fortified Instant ‘Ugali’ Flour” and Consumer and assessment/ preference study for Global Alliance for Improved Nutrition (GAIN) under the Marketplace for Nutritious Foods project, 2019.
- Lead Investigator in the design and installation of a solar dryer for processing of *Moringa Oleifera* powder for fortification of food products in Malindi, 2019.
- Technical Investigator, Midterm project evaluation for the Yieldwise expansion phase (mango-Kenya) under TechnoServe and Rockefeller Foundation, 2019.
- Technical consultant, Midterm project evaluation for the Yieldwise expansion phase (mango-Kenya) under TechnoServe and Rockefeller Foundation, 2019.
- Lead Investigator, “Data analysis and development of nutrition profiles for Marsabit county” under Concern Worldwide October- November, 2018.
- Lead investigator in the design and installation of a solar dryer for processing of *Moringa Oleifera* powder for fortification of food products in Malindi, 2019.
- Project director, “Data analysis and development of nutrition profiles for Marsabit county” under Concern Worldwide October- November, 2018.

- Co-PI, “Adaptation and Up-scaling of tested and applicable postharvest technologies for smallholder horticultural farmers to reduce postharvest losses” National Research Fund (NRF) Multidisciplinary Research Grant, 2017.
- Co-Investigator on “Establishment of Aggregation Centers for Smallholder Horticultural Farmers in YieldWise Project and Organization of the 1st All Africa Postharvest Congress and Exhibition sponsored by Rockefeller Foundation, 2016”. Design and installation of solar dryers for mango processing in Kenya.
- Principal researcher: Baseline Evaluation Study in Marsabit, Turkana, Isiolo, Wajir and Garissa for the Feed the Future Kenya Livestock Market Systems under ACDI VOCA, Mercy Corps, Smart Regional Consultants (SRC) and BOMA Program, USAID, 2018. Baseline evaluation on livestock market systems, nutrition and health impacts, food and nutrition security, gender, youth and women, conflict management, disaster management and rangeland management.
- Project director, “Enhancing the Processing Techniques, Marketing and Financial Management Skills of Livestock Enterprises in Meru, Tharaka Nithi, Kitui Counties” under the Kenya Semi- Arid Livestock Enhancement Support Project (K-SALES) under Land O’ Lakes sponsored by USDA.
- Co-investigator, Tailored fermentation for delivery of wholegrain and cereal fibre-rich products: - Promoting dietary fibre intake in Africa and Europe - (FIBRE - PRO)” Era Africa under the European Commission, part of the Seventh Framework Programme of the European Community for Research, Technological Development and Demonstration Activities under the funding scheme of “Collaborative Project”, ERAfrica-ERAFRICA\_IC-025; FIBRE-PRO.
- Sub-project coordinator and WP 3b leader, Meat Value Chain in the RELOAD Project “Reduction of losses and value addition by strengthening small and medium enterprises in food processing to sustain value chains in East African postharvest systems” sponsored by the Federal Ministry of Education, Germany.
- Co-investigator: Enhancing the Quality of graduates of agriculture to meet tomorrow’s food security challenge (PREPARE-BSc) funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II) -Reference: EuropeAid/132023/D/ACT/ACPTPS. 2013 - 2015.
- Co-investigator: Contribution of *Cleome gynandra* (Cat’s whiskers) to food, nutrition and income for rural populations under the Dean’s Grant 2011/2012 NO. 500-655-665.
- Co-investigator: Strategies to reduce mycotoxin levels in maize during storage funded by the National Council for Science & Technology and Ministry of Higher Education Science and Technology under the Science, Technology and Innovations (ST&I) grant for Women Scientists/ Researchers (2010-2011)
- Principal Investigator: Nutritional Value and Functional Properties of Bioactive Compounds in Supplementary Food Developed from Selected Local Food Ingredients, a PhD research study sponsored by the German Academic Exchange Services DAAD), 2008-2011.
- Principal Investigator: Microbiological Studies of *Kirario*, an indigenous Kenyan Fermented Porridge Based on Green Maize and Millet/Sorghum. An MSc. research Project Sponsored by the University of Nairobi, 2004-2006.

- Research assistant: Improving the Quality and Nutritional Status of “Gari” through the use of Starter Cultures and Fortification with soybean, palm oil and coconut milk; Training of Kaloleni women group on cassava processing, a European Commission sponsored project INCO-DEV) “GARISECURE” on Technological and Nutritional improvement of Gari, a lactic fermented cassava-based product.
- Award for Support to strengthen the competitiveness of the ACP horticultural industry through technical assistance and training in food safety under the Fit for Market’ COLEACP Program for Lot 2: Geographical area 2, Ref.: Tender 16001-lot 2, 2017.
- Project director on “Training in Risk Analysis for FDA project under the TRAQUE Programme” to enhance FDA capacity to regulate food and drugs held on 19<sup>th</sup> to 30<sup>th</sup> January, 2015. REF: FDA/TRAQU E/014/09
- Researcher: Delivery of Training Package 4 on Risk assessment from the 20<sup>th</sup> to the 24<sup>th</sup> of October 2014 in Gaborone, Botswana under the Safe Food in ACP ‘Des Aliments Sûrs en ACP’ Program funded by the EU, UN programme Finance Parl’ue (EDES). Consultancy under Cardno Emerging Markets East Africa Ltd, (REF: EDES 130318/AO/ACP)
- Researcher: Delivery of Trainings Packages 4 (Risk assessment) and 9 (Risk Communication) from the 13<sup>th</sup> to the 17<sup>th</sup> of January 2014 (P4) and from the 20<sup>th</sup> to the 24<sup>th</sup> of January 2014 (P9) in Accra, Ghana under the Safe Food in ACP ‘Des Aliments Sûrs en ACP’ Program funded by the EU, UN programme Finance Parl’ue (EDES). REF: (130360/GG/CSFC/001/GHA-REF: 1600)
- Principal researcher: Research on Food Safety for Fruits and Vegetables Sold in Domestic Markets for Solidaridad Eastern & Central Africa Expertise Centre (SECAEC), Solidaridad project number H&F/2013/PDC/Cathy Safe Foods Consultants.
- Principal researcher: Development of a Ready-to-Use Supplementary Food and training in Food safety for Nobel Enterprises Limited, Nairobi.
- Principal researcher: Installation and fabrication of a solar tunnel dryer in Mitunguu, Meru County for SunGold Foods Limited.
- Principal researcher: Product Development and nutritional analysis of dehydrated mangoes and bananas by solar drying for SunGold Foods Limited.
- Principal researcher: Design and layout for a fruit processing plant in Mitunguu, Meru County for SunGold Foods Limited.
- Principal investigator: Preservation and Shelf-Life Analysis of Opuntia Cactus fruit syrup: training of Twala women group on product technologies in Laikipia Kenya, a project sponsored by the African Conservation (ACC).
- Principal investigator: Nutritional Analysis and Chemical Composition of Opuntia Cactus Pear Fruits, a project sponsored by the African Conservation Centre (ACC).
- Co-researcher: Transfer of Postharvest handling technologies for fresh produce to rural communities in Kenya and particularly Machakos and Makueni Counties.
- Researcher: Design and fabrication of solar dryers particularly the tunnel and green house solar dryers for SMEs and rural communities.

- Principal investigator: Training personnel of Ministry of Agriculture: Value addition through agro- processing through Kenya Agriculture research Institute (KARI).
- Researcher: CTA on Information and communication Management strategies of small-scale agro- business enterprises in Africa held in Cotonou, Benin in February, 2006.
- Researcher for ICRISAT: proof-reading and editing of scientific papers on research carried out in the Limpopo Water Basin in Zimbabwe.

## **PATENTS**

- Angela Mwangi, Catherine Kunyanga and Cecilia Onyango. (2023). Cultured Milk Supplemented with Baobab Fruit Pulp. KE/P/2023/4637.
- George Abong, Truphena Gikaara, Catherine Kunyanga, Lucy G. Njue. (2018). Orange Fleshed sweet potato thickened yoghurt. KE/UM/2018/1046.

## **9. PEER REVIEWED JOURNAL PUBLICATIONS**

1. Ssemakula, Frank and Nawoya, Sarah and **Nkirote Kunyanga, Catherine** and Akol, Roseline and Nakimbugwe, Dorothy and Cheruiyot Bett, Rawlynce and Karstoft, Henrik and Bjerger, Kim and Katumba, Andrew and Mwikirize, Cosmas and Gebreyesus, Grum. Emerging technologies for fast determination of nutritional quality and safety of insects for food and feed: A review (April 22, 2024). Available at SSRN: <https://ssrn.com/abstract=5032784> or <http://dx.doi.org/10.2139/ssrn.5032784>
2. **Kunyanga Nkirote Catherine**, B. Roy Mugiira, N. Josephat Muchiri, "Public Perception of Genetically Modified Organisms and the Implementation of Biosafety Measures in Kenya", *Advances in Agriculture*, vol. 2024, Article ID 5544617, 15 pages, 2024. <https://doi.org/10.1155/2024/5544617>.
3. **Kunyanga, Catherine Nkirote**, Morten Fibieger Byskov, Keith Hyams, Samuel Mburu, Grace Werikhe, and Cecilia Moraa Onyango. (2023). "Perceptions of the Governance of the Technological Risks of Food Innovations for Addressing Food Security" *Sustainability* 15, no. 15: 11503. <https://doi.org/10.3390/su151511503>.
4. **Kunyanga, C.N.**; Byskov, M.F.; Hyams, K.; Mburu, S.; Werikhe, G.; Bett, R. (2023). Influence of COVID-19 Pandemic on Food Market Prices and Food Supply in Urban Markets in Nairobi, Kenya. *Sustainability*, 15, 1304. <https://doi.org/10.3390/su15021304>.
5. Angela Wanjiku Mwangi, **Catherine Nkirote Kunyanga** and Cecilia Moraa Onyango. (2023). Development, nutritional and microbial evaluation of cultured bovine milk supplemented with baobab fruit pulp, *CyTA - Journal of Food*, 21:1, 198-208, DOI:10.1080/19476337.2023.2188060. Link to this article: <https://doi.org/10.1080/19476337.2023.2188060>.
6. Angela Wanjiku Mwangi, **Catherine Nkirote Kunyanga** and Cecilia Moraa Onyango. (2023). Production, consumption, processing and marketing of the baobab fruit (*Adansonia digitata* L.) in Kenya. *African Journal of Food Science*,



- Vol. 17(2) pp. 35-48. DOI: 10.5897/AJFS2022.2237 Article Number: E5159AE70424 ISSN: 1996-0794. <http://www.academicjournals.org/AJFS>.
7. Garsow AV, Kim EG, Colverson KE, Ilic S, **Kunyanga C**, Bainah A and Kowalczyk BB (2022) A review of the roles of men, women, and youth in ensuring food safety in the smallholder poultry value chain in Kenya. *Front. Sustain. Food Syst.* 6:1041472. doi: 10.3389/fsufs.2022.1041472.
  8. Umwali N, **Kunyanga CN** and Kaindi DWM (2022) Determinants of stunting in children aged between 6-23 months in Musanze region, Rwanda. *Front. Nutr.* 9:1044350. doi: 10.3389/fnut.2022.1044350
  9. Vila-Real, C.P.N., Sofia, A., Pimenta-Martins, **Kunyanga, C.N.**, Mbugua, S.K., Katina, K., Maina, N.H, Gomes, A.M.P. (2022). Nutritional intake and food sources in an adult urban Kenyan population. *Nutrition Bulletin*; 1-15. DOI: <https://doi.org/10.1111/nbu.12582>.
  10. Kiptanui, E.B., **Kunyanga, C.N.**, Ngugi, E.K., and Kimani E.D. (2022). Optimization of fermentation and malting process of sorghum beverage and effects on nutritional quality. Vol. 16(10) pp. 252-260. Article Number: 597A35669817, ISSN: 1996-0794. DOI: 10.5897/AJFS2022.2211.
  11. Kimani, D.E., **Kunyanga, C.N.** and Ngugi E.K. (2022). Nutritional and sensory quality of a sorghum snack supplemented with sesame and baobab fruit powder. *African Journal of Food Science*; Vol. 16(3) pp. 81-91, DOI: 10.5897/AJFS2021.2121. Article Number: 67AFF9C68846, ISSN: 1996-0794.
  12. Onyango, A.E., Okoth, M.W., and **C.N. Kunyanga**. (2022). Performance of a Continuous Solar Water Disinfection System in Isiolo County, Kenya. *Journal of Engineering in Agriculture and the Environment*. Volume 8. No.1; pp 73-85. DOI: <https://doi.org/10.37017/jeae-volume8-no1.2022-6>.
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  14. Kunyanga C.N., Kimani, D.E., and Werikhe G. (2021). Meat quality status and postharvest handling practices along the meat value chain in Kenya. *African Journal of Food Science*; Vol. 15(6) pp. 272-280, DOI: 10.5897/AJFS2021.2084. Article Number: DCF447E67160. ISSN: 1996-0794. <http://www.academicjournals.org/AJFS>.
  15. Nkechi P. Akah, Catherine N. Kunyanga, Michael W. Okoth & Lucy K. Njue. (2021). Pulse Production, Consumption and Utilization in Nigeria within Regional and Global Context. *Sustainable Agriculture Research*; Vol. 10, No. 2; 2021. ISSN 1927-050X E-ISSN 1927-0518. doi:10.5539/sar.v10n2p48 URL: <https://doi.org/sar.v10n2p48>.
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  17. Rahma Thuiya Ali, **Catherine N. Kunyanga**, Kahi Ngugi. (2021). In-Vitro protein digestibility, physico-chemical properties and nutritional quality of sorghum-green gram cookies supplemented with mango powder. *International*

- Journal of Food and Nutrition Research*, 2021; 5:39. DOI link: <https://doi.org/10.28933/ijfnr-2020-12-3005>. Accessed at link - <https://escipub.com/ijfnr-2020-12-3005/>.
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  19. Beinah, A., Kunyanga, C., & Ngugi, K. (2020). Utilization and Processing of Sorghum by Small Holder Farmers in Drought Prone AgroEcological Zones of Kenya. *Advances in Social Sciences Research Journal*; 7(10) 116-121.
  20. Ogumo EO, Kunyanga CN, Kimenju JW, Okoth MW. (2020). Performance of a fabricated solar-powered vapour compression cooler in maintaining post-harvest quality of French beans in Kenya. *African Journal of Food Science*; Vol. 14(7) pp. 192-200. DOI: 10.5897/AJFS2020.1968 Article Number: 10D5A6164541, ISSN: 1996-0794. <http://www.academicjournals.org/AJFS>
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57. Vadivel, V., **Kunyanga C.N.**, and Biesalski, H.K. (2012). Review on Health Benefits of Nut Consumption with Special Reference to Body Weight Control. *Nutrition Journal*, 28:1089-1097. ( <http://dx.doi.org/10.1016/j.nut.2012.01.004>)
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63. **Kunyanga, C.N.,** Imungi, J.K., Okoth, M., Momanyi, C., Biesalski, H.K. and Vadivel, V. (2011). Antioxidant and Antidiabetic properties of condensed tannins in acetic extract of raw and processed food ingredients from Kenya. *Journal of Food Science*, 76: C560-C567, doi:10.1111/j.1750-384.2011.02116.x (Published by Wiley- Blackwell, ISSN No.0022-1147, Impact factor: 1601).
64. **Kunyanga, C.N.,** Imungi, J.K., Okoth, M.W., Biesalski, H.K. and Vadivel, V. (2011). Flavonoid content of Ethanol Extract of Indigenous Foods Consumed by Vulnerable Groups in Kenya: Antioxidant and Antidiabetic Activities. *International Journal of Food Science and Nutrition*, 62(5): 465-473. DOI:10.3109/09637486.2010.550237. (Published by Thomson Scientific Co, ISSN No. 47/188, Impact factor 1.313).
65. **Kunyanga, C.N.,** Imungi, J.K. (2010). Quality Characteristics and Acceptability of Bread Produced with Supplementation of Dolichos lab lab Beans. *Food Science and Technology*, Vol. 16, 6: 593-598 DOI:10.3136/fstr.16.593.
66. **Kunyanga, C.N.,** Mbugua, S.K., Imungi, J.K., Kangethe, E.K. (2009). Isolation and Characterization of Lactic Acid Bacteria in Kirario, an Indigenous Kenyan fermented Porridge Based on Green Maize and Millet. *Journal of Tropical Microbiology and Biotechnology*, Vol. 5, 1: 21-30.
67. **Kunyanga Nkirote C.,** Mbugua S.K., Kangethe E.K., Imungi J.K. (2009). Microbiological and Acidity Changes Occurring during The Traditional Production of Kirario: An Indigenous Kenyan Fermented Porridge Produced from Green Maize and Millet. *African Journal of Food, Agriculture and Development*, Vol. 9, 6:1419-1435.

### **Books/Book Chapter and Reports**

- Benchmarks for Bachelor of Science in Food Safety for EAC Universities under the Inter-University Council for East Africa and International Livestock Research Institute (ILRI) as a member of the East Africa Technical Working Group, Kenya.

### **Blog articles**



- Residues in Kenya: toxic side dish (2022). Pesticides Atlas: Facts and figures about toxic chemicals in agriculture BY Silke Bollmohr, Susan Haffman and Catherine Kunyanga. Published by the Heinrich Böll Foundation (HBF) at <https://ke.boell.org/en/2022/10/14/pesticides-atlas>.
- Pesticide Use in Kenya: A Toxic Business. (2022). Pesticides Atlas: Facts and figures about toxic chemicals in agriculture, page 38-39 by Layla Liebetrau and Catherine Kunyanga. Published by the Heinrich Böll Foundation (HBF) at <https://ke.boell.org/en/2022/10/14/pesticides-atlas>.
- Residues in Kenya: toxic side dish (2022). Published in the Route to Food Initiative website: <https://routetofood.org/residues-in-kenya-toxic-side-dish/>.

## **10. PRESENTATIONS IN SCIENTIFIC CONFERENCES AND WORKSHOPS**

1. Keynote Speaker, Girls in ICT International Day under SheTech Nexus Africa, at the JKUAT Juja campus on 24th April 2025.
2. Panelist speaker to an event on agriculture at Résidence de France, French Embassy, Training as a Key to Innovation and Employment, Tuesday 8 April, 2025.
3. Agriculture Sector Network (ASNET) and the University Deans of Agriculture Forum (DAF) with support from GIZ Sustainable Agricultural Systems and Policies (AgSys) Project and EU funded project on Universities Promoting Linkages for Impactful Training, Innovation and Technology Transfer in Agriculture (UPLIFT-Ag), two-day retreat on 10th and 11th April 2025 at Eseriani The Resort, Karagita, Moi south Lake road, Naivasha.
4. Speaker, “International Scientific and Practical Conference on “Educational Diplomacy of Russia In Africa And Middle East Countries” by Ministry of Science and Higher Education in the Russian Federation, Federal State Budgetary Educational Institution of Higher Education and Maykop State Technological University on 16-18 October, 2024, Maykop.
5. Speaker, ‘University experience working with industry’ during the Deans Side Event During National Agriculture Summit on October 1 - 2, 2024 At Venue - Taifa Hall KICC, Nairobi organized by Agriculture Sector Network and funded by the EU.
6. Speaker, ‘Value addition in Agriculture’ during Brazil Innovation Day organized by Embassy of Brazil on September 23, 2024.
7. World HAPEx Thailand 2024 - Attended the Global Halal Forum in Thailand on 30<sup>th</sup> August, 2024.
8. Access to Nutrition Initiative Kenya Index Half-Day Multi-Stakeholder Roundtable On August 13th At The Sarova Panafric, Nairobi by Access to Nutrition Initiative (ATNI) for a roundtable consultation for the first edition of the Kenya Index- to be published in Q1 2025.
9. Kunyanga, C. N. (2021), Experts Task Force Member, Science Icafé held on 17<sup>th</sup> November, 2021 on ‘Pesticides in Kenyan Market’.
10. Kunyanga, C. N. (2021). “Innovative Approaches to Processing and Preservation of Fruits by Smallholder Farmers in Kenya” during the DAAD alumni seminar “Fruit and

Vegetable processing” - 29 June - 2 July 2021, “Transfer of knowledge between West and East Africa: advancing in fruit and vegetable processing to minimize food loss along the value chain and improve human nutrition” on Tuesday 29th June - Friday 2nd July 2021.

11. Mewa, E. A., Okoth, M. W., **Kunyanga, C. N.** & Rugiri, M.N. (2018). Effect of solar tunnel drying on the instrumental texture parameters of dried beef. RUFORUM Working Document Series (ISSN 1607-9345), No. 17 (1): 251-257. Available from <http://repository.ruforum.org>
12. Abdiaziz B. **Kunyanga C.N.** Kahiu, P. Utilization and Processing of Sorghum By Small Holder Farmers/Groups In Drought And Striga Prone Agroeco-Zones of Kenya, Kenya Science Week, KICC, 5- 9<sup>th</sup> August 2019.
13. **Kunyanga C.N** Hesse, M, and Imungi, J.K. (2018). “Promoting Nutrition and Food Security in Africa: Role of University Research, technology and Innovation” presented at Tropentag, 2018 “International Conference on Research on Food Security, Natural Resource Management and Rural Development”, Global Food Security and Food Safety: The role of Universities held on 17-19 September, 2018 in Ghent, Belgium.
14. Namusalisi, J., Anani, B., De Groote, H., **Kunyanga C.N.** (2018). Evalaution of Hermetic technologies in Controlling Insect Pests, Mould Infestation and Aflatoxin Contamination of Stored Maize” presented at Tropentag, 2018 “International Conference on Research on Food Security, Natural Resource Management and Rural Development”, Global Food Security and Food Safety: The role of Universities held on 17-19 September, 2018 in Ghent, Belgium.
15. Ambuko, J., **Kunyanga, C.N.**, Hutchinson, M., Cheminigwa, G., Mburu, J., Owino, W. (2018). “Group Aggregation can Contribute to Postharvest Loss Reduction and Better Market Access for Smallholder Mango Farmers” presented in the International Horticultural Congress (IHC 2018) held on 12 and 16 August 2018 in Turkey.
16. Namusalisi, J., Anani, B., De Groote, H., **Kunyanga C.N.**, Wagacha, m., Mugo, S. (2017). “Evaluation of Hermetic Storage on the Control of Moulds, Insects and Aflatoxins in Maize.” A-Z Innovation Platform Meeting, January 25, 2018, Africa Technical Research Center in Arusha, Tanzania.
17. Catarina Vila Real, Ana Pimenta, Jack-Susan Magu, Catherine Kunyanga, Samuel Mbugua, Ndegwa H. Maina, Ana M.P. Gomes and Elisabete Pinto. (2018). Validity and reproducibility of a developed culture-sensitive, semi-quantitative food frequency questionnaire for use among adult population in Kenya presented at the 21st International Epidemiological Association (IEA) World Congress of Epidemiology, 19-22nd August 2017, Sonic City (Convection center) Saitama, Japan.
18. Catarina Vila Real, Ana Pimenta, **Catherine Kunyanga**, Samuel Mbugua, Ndegwa H. Maina, Ana M.P. Gomes and Elisabete Pinto. (2018). Nutritional Adequacy in a sample of adult urban Kenyan presented at Associacao Portuguesa De Nutricao, Acta Portuguesa de Nutricao (2017) 44-74. [www.actaportuguesadenutricao.pt](http://www.actaportuguesadenutricao.pt).
19. Ambuko, J., **Kunyanga, C.N**, Hutchinson, M. Owino, W., Chemining'wa, G., Mburu, J. and Amwoka, E. (2017). Oral presentation on “Group aggregation can contribute to postharvest loss reduction and better market access for smallholder farmers: mango



case study” submitted to International Symposium on Strategies and Technologies to Maintain Quality and Reduce Postharvest Losses, International Society for Horticultural Science and ROSA - Responsive Online System for Acta Horticulturae submission and review for symposium nr 674, abstract nr 122.

20. Namusalisi, J., Anani, B., De Groote, H., **Kunyanga C.N.**, Wagacha, m., Mugo, S. (2017). “Advances in drying and storage technologies in aflatoxin management” Workshop on combatting aflatoxins in the maize Value Chain of Africa. In Dares Salaam Serena Hotel, 4-5th December 2017
21. **Kunyanga, C.N.**, Gichure, J.N., Mathi, P.M., Imungi, J.K. (2017). “Reduction of Post-Slaughter Losses in the Meat Value Chain through Value Addition and Innovative Processing Technologies” 1st Africa Post Harvest Congress 2017 held on 28th to 31 March, 2017 at Safari Park Hotel, Nairobi, Kenya.
22. **Kunyanga, C.N.**, Gichure, J.N., Mathi, P.M., Imungi, J.K. (2017). Evaluation of Commercial Feasibility of the Deep-Frying Processing Technology in the Reduction of Post-Slaughter Losses in Kenya. 1st Africa Post Harvest Congress 2017 held on 28th to 31 March, 2017 at Safari Park Hotel, Nairobi, Kenya.
23. **Kunyanga, C.N.**, and Mburu J. (2016). “Linking Climate-Smart Horticulture to Better Nutrition and Health Outcomes of Rural Households for Improved Livelihoods”, presented at the World Food Day Colloquium, “No Sun - No Food”, Climate Disasters and Food Security 200 years after Tambora, University of Hohenheim, Germany.
24. Cherop G., **Kunyanga C.N.**, Oduor F., Boedecker J. and Termote C. (2016). Nutrient adequacy of locally prepared recipes used for complementary feeding of children 6 - 23 months in Vihiga County, Western Kenya. Oral presentation in Sub-theme ‘Maternal, Infant and Young Child Nutrition’ at the National Food and Nutrition Symposium in Kenya School of Government, Lower Kabete on 23rd Nov, 2016.
25. **Kunyanga, C.N.**, Gichure, J.N., and Mathi, P.M. (2015). Production of shelf stable and innovative solar dried meat snacks from chevon with potential for commercialization in pastoral regions of Kenya. Oral presentation at the Nairobi Innovation Week, UoN, 3rd to 7th August, 2015, “Innovate and Prosper: Strengthening Academia, Industry and Government linkages for economic growth”.
26. Gichure, J.N., **Kunyanga, C.N.**, Imungi, J.K, and Mathi, P.M. (2015). Meat processing and preservation technologies practiced in Kenya’s Pastoral areas with potential for improvement based on product competitiveness. “Policies for Competitive Smallholder Livestock Production” conference in Gaborone, Botswana. By International Livestock Research Institute (ILRI) and Botswana Institute for Development Policy Analysis (BIDPA). 4th - 6th March 2015
27. Gichure, J.N., **Kunyanga, C.N.**, Imungi, J.K, and Mathi, P.M. (2014): Application of Appropriate Technologies to Minimize Post Harvest Losses and Improve Quality along Pastoral Beef Value Chain in Developing Countries: Case of Kenya. Proceeding of the 17th World Congress of Food Science and Technology & Expo. Research that resonates. Montreal, Quebec, Canada. 17th-21st August, 2015, <http://iufost2014.org/files/book-of-abstracts.pdf>.

28. Onyango C.M., Catherine N. Kunyanga, Edward G. Ontita, Rama D. Narla and John W. Kimenju (2013). Production, utilization and indigenous knowledge of spider plant (*Cleome gynandra*) in Kenya. 11th African Crop Science Society Conference (ACSSC), October 14-17, 2013, Imperial Botanical Beach, Entebbe in Uganda.
29. **Kunyanga, C.N.**, Biesalski, H.K., Scherbaum, V., Vadivel, V., Imungi, J.K., Okoth, M.W. 2011. Evaluation of the role of flavanoids present in indigenous foods regarding health and nutrition of vulnerable groups in Kenya. Presented in “II World Congress of Public Health Nutrition and I Latin-American Congress of Community Nutrition” held in Alfundega Congress Centre, Porto, Portugal on September 23-25, 2010.
30. **Kunyanga, C.N.**, Biesalski, H.K., Scherbaum, V., Vadivel, V., Imungi, J.K., Okoth, M.W. 2011. Antioxidant activity of phenolics in indigenous foods. Presented in International Conference on “African Nutritional Epidemiology” organized by Centre for Public Health Research, Kenya Medical Research Institute, held in Nairobi, Kenya on 4-8, October, 2010.
31. **Kunyanga, C.N.**, S. Strum, S. Graham, J. Imungi. Physico-chemical methods for preservation of opuntia cactus fruit syrup: Empowerment of Maasai women in Laikipia, Kenya. African Crop Science Society Conference, Cape Town, South Africa 2009: Science and Technology Supporting Food Security in Africa 28 September to 1 October 2009.
32. Makori, S. I., Karuri, C. E., Kunyanga, C., Wanyoike, M., Onyango, C., (2014). The Effects of Curing and Smoking on Microbial Quality, Chemical Composition and Sensory Quality of Newly Developed Rabbit Ham Products. Proceedings of 2014 JKUAT Scientific, Technological and Industrialization Conference “Science, Technology, Innovation and Entrepreneurship for sustainable Development”. 13th -14th November, 2014. ISBN 9966-923-28-4. <http://ir.jkuat.ac.ke/handle/123456789/1521?show=full>

## **POSTERS**

1. L.K. Mutwika, F.O. Habwe, and **C.N. Kunyanga**. “Magnitude of Anemia among Moderately Malnourished HIV Seropositive Adults on Care at Chulaimbo County Hospital and Nyahera Sub-County Hospital, Kisumu County, Kenya”, Sustainable Development for HIV Health (SD4H) Fellowship Program presented at the UoM/UoN STD/HIV/Srh Collaborative Research Group Annual Review Meeting.
2. Werikhe G., **Kunyanga C.N.**, Imungi, J.K. (2018). “Current Status of Pre-slaughter, Slaughtering and Post-slaughter Practices for Fresh Beef in Pastoral Areas of Kenya” presented at Tropentag, 2018 “International Conference on Research on Food Security, Natural Resource Management and Rural Development”, Global Food Security and Food Safety: The role of universities held on 17-19 September, 2018 in Ghent, Belgium.
3. **Kunyanga C.N.**, Onyango C.M., Wahome R.G., Karanja D.N., Muchemia G. and Inyega J. (2017) “Employer Perceptions and Attitudes Towards Agricultural Graduates in Kenya”, under PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).

4. **Kunyanga C.N.**, Onyango C.M., Wahome R.G., Karanja D.N., Muchemia G. and Inyega J. (2017) “Curriculum Review and Constructive Alignment to Teaching”, under PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
5. Onyango C.M., **Kunyanga C.N.**, Wahome R.G., Karanja D.N., Muchemia G. and Inyega J. (2017) “Use of Problem Based Learning (PBL) Approach in University Education”, under PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
6. Karanja D.N., **Kunyanga C.N.**, Onyango C.M., Wahome R.G., Muchemia G. and Inyega J. (2017) “Knowledge, Attitudes and Practices of University Academic Staff in Training Agricultural Graduates”, under PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
7. Wahome R.G., Karanja D.N., **Kunyanga C.N.**, Onyango C.M., Muchemi G. and Inyega J. (2017) “Assessment of University Student Altitudes, Preparedness, Knowledge and Practices in taking Training in in Agriculture and related Subjects”, under PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
8. Karanja D.N., Wahome R.G., **Kunyanga C.N.**, Onyango C.M., Muchemia G. and Inyega J. (2017) “Improving Quality of Assessment and Feedback Practices in Training Graduates of Agriculture”, under PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
9. Inyega J., Karanja D.N., **Kunyanga C.N.**, Wahome R.G., Onyango C.M., and Muchemia G. (2017) “Training of University Lecturers in Mentorship Programmes for Lecturers and Students”, under PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
10. Wahome R.G., **Kunyanga C.N.**, Karanja D.N., Onyango C.M., Muchemia G. and Inyega J. (2017) “Knowledge, Attitudes and Practices of Secondary School Students, Teachers and Parents Towards Agricultural Sciences in University Education”, under PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
11. Muchemia G., Wahome R.G., **Kunyanga C.N.**, Karanja D.N., Onyango C.M., and Inyega J. (2017) “Training of University Lecturers in Activating Lecturers and Engaging Students to Learn”, under PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
12. **Kunyanga, C.N**, Gichure, J.N., and Mathi, P.M. (2015). Development of innovative fruity wines from Tamarind indica, Opuntia stricta and Opuntia Indica underutilized fruits in Kenya. Nairobi Innovation Week, UoN, 3rd to 7th August, 2015, “Innovate and Prosper: Strengthening Academia, Industry and Government linkages for economic growth”.

13. **Kunyanga, C.N**, Gichure, J.N., and Mathi, P.M. (2015). Development, Acceptability and Nutritional Characteristics of a Low-cost, Shelf-stable Supplementary Food for People Living with HIV/AIDS (PLWHAs) in Kenya. Nairobi Innovation Week, UoN, 3<sup>rd</sup> to 7<sup>th</sup> August, 2015, “Innovate and Prosper: Strengthening Academia, Industry and Government linkages for economic growth”.
14. Gichure, J.N., **Kunyanga, C.N**, and Imungi, J.K (2015). Poster Presentation on “Potential for improvement of deep-fried meat products among four pastoral communities in Kenya” SAAFoST 2015 Congress in Durban, South Africa.
15. Okello, E., **Kunyanga, C.N**. Utilization of mango seeds as an alternative starch source in soup making. International Youth Conference: Factoring Youth Voices into Critical Issues: Agenda on Environmental Sustainability, Climate Change Mitigation and Adaptation, Food Security and Nutrition in Africa held on 9-10 March 2012, Nairobi, Kenya.
16. Miriti, J. D.W, Okello, E., Koech, R., **Kunyanga, C. N**. Production and adaptability of banana wine in Eastern Africa. International Youth Conference. Factoring Youth Voices into Critical Issues: Agenda on Environmental Sustainability, Climate Change Mitigation and Adaptation, Food Security and Nutrition in Africa held on 9-10 March 2012, Nairobi, Kenya.
17. Miriti, J. D.W, Okello, E., Koech, R., **Kunyanga, C. N**. Value addition of meats by adopting salami manufacture. International Youth Conference. Factoring Youth Voices into Critical Issues: Agenda on Environmental Sustainability, Climate Change Mitigation and Adaptation, Food Security and Nutrition in Africa held on 9-10 March 2012, Nairobi, Kenya.
18. Okello, E., **Kunyanga, C.N**. Adaptation of mango nectar processing in small and medium enterprises in sub-Saharan Africa. International Youth Conference, Factoring Youth Voices into Critical Issues: Agenda on Environmental Sustainability, Climate Change Mitigation and Adaptation, Food Security and Nutrition in Africa held on 9-10 March 2012, Nairobi, Kenya.

## **11. EDITORIAL FUNCTIONS**

### **Web of Science Researcher Profile - Reviews**

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#### **PEER REVIEW**

##### **Added**

- Foods. (2024-06-07)
- Journal of food safety. (2024-06-07)
- Nutrients. (2024-06-07)
- PloS one. (2024-06-07)

• Sustainability. (2024-06-07)

- Reviewer MDPI journals including sustainability journals, nutrients etc. <https://susy.mdpi.com/>.
- Editorial board member, *Journal of Pedagogy, Andragogy and Heutagogy in Academic Practice*/ISSN:2708-261X, under the University of Nairobi's Centre for Pedagogy and Andragogy (CEPA), launched 2015.
- Review for Lakes & Reservoirs: Science, Policy and Management for Sustainable Use Scholar one Manuscripts journal.
- Reviewer for PLOS ONE journals, [plosone@plos.org](mailto:plosone@plos.org).
- Reviewed for *Journal of Agriculture and Rural Development in the Tropics and Subtropics*, <http://www.jarts.info/>
- Reviewer, Journal of Agriculture, Food and Environment (JAFE), UoN.
- Reviewed for *African Journal of Food and Nutrition* (AJFAND), [www.ajfand.net](http://www.ajfand.net)
- Reviewed for *Food Science and Technology Research Journal*
- Reviewed for *Agricultural and Natural Resources Journal*, Elsevier.
- Reviewed for Journal of Food Composition and analysis, Elsevier
- Review of papers and abstracts for the First and Second Africa Postharvest Congress in Nairobi and Addis Ababa.
- Review of Postdoctoral proposals under the Faculty of Agriculture Postgraduate Studies Committee member, Department of Food Science, Nutrition & Technology Representative.
- Review of proposals for Kenya Climate Smart Agriculture Project (KCSAP) under KARLO, 2020
- Technical reviews and Enhancement of Value Addition Modules for Farm Concern International and "Catalyzing Market Prospects for Horticulture Smallholder Farmers, Small, and Medium Enterprises in Rwanda Project", 2021.

## **12. STUDENT SUPERVISION:**

### **GRADUATED STUDENTS**

#### **PHD**

1. "Development of a Smart Prototype Solar Cooler to Replace Charcoal Coolers in Maintaining Quality and Shelf Stability of French Beans Along the Supply Chain in Kenya", **Ogumo Erick Otieno**, A81/53192/2018, 2020, PhD in Food Science and Technology, University of Nairobi.
2. "Farm Production Diversity and Its Association with Dietary Diversity Among Smallholder Farmers in Kisii And Nyamira Counties, Kenya". **Davis Nguthi Muthini**, REG NO. A80/50979/2016, PhD in Agricultural Economics, University of Nairobi, 2020.
3. "Effects of Social Networks on Household Food Consumption among Smallholder Farmers in Kisii and Nyamira Counties, Kenya" **Mbugua Mercy Wanjiru**, (A80/50978/2016) PhD student in the Department of Agricultural Economics, University of Nairobi, 2019.

4. “Modeling of Drying Kinetics and Quality Characteristics of Solar Dried Beef.” **Eunice Akello Mewa** (A81/98769/2015), PhD in Food Science and Technology, University of Nairobi, 2018.
5. “Integrating Traditional Techniques into Conventional Preservation Methods to Upgrade Pastoral Deep-Fried Beef Products in Kenya”, **Josphat Njenga**, PhD in Food Science and Technology, University of Nairobi, 2017, RELOAD project, registration no. A81/94473/2014.

**MSC**

1. Development and Quality Evaluation of a Functional Food from Cultured Milk Supplemented with Baobab (*Adansonia Digitata* L.) Fruit Pulp. **Angela Wanjiku Mwangi**, A56/39147/2021. **MSC. Food Science and Technology**, UoN, 2023.
2. Product and Process Development of Ready to Eat Sorghum-Green Gram Cookies Enriched with Mango Powder. **Rahma Thuiya Ali**, A56/11093/2018. **MSc. in Food Science and Technology**, University of Nairobi, 2023.
3. Development of a Ready to Eat Sorghum Snack Supplemented with Sesame and Baobaob Fruit for Nutritional and Sensory Quality. **David Edgar Kimani**, A56/11864/2018. **MSc. in Food Science and Technology**, University of Nairobi, 2022.
4. “Evaluation of Effects of Capsaicin in Suppression of Plant Pathogens in Tomatoes” **Charity W Karanja** Registration No. (A56/33178/2019). **MSc in Food Safety and Quality**, 2022.
5. “Quality Characteristics and Storability of Solar Dried Chilli Products” **Fridah Kawira Ireri** (Registration No. A56/35656/2019), **MSc. in Food Science and Technology**, University of Nairobi, 2022.
6. “Development of Ready to Eat (RTE) Breakfast Cereal from Sorghum-Pigeon Peas Blends” **Abdullahi Beinah** (A56/9093/2017), **MSc. in Food Science and Technology**, University of Nairobi, 2021.
7. Influence of maternal nutrition knowledge on Infant and young child feeding practices and nutrition status of children of 6-23 months of age, in Rwanda. **Nadine Umwali**, A56/12369/2018, **Master of Science in Applied Human Nutrition**, University of Nairobi, 2020.
8. Enhancing Haemoglobin Status of Anaemic School Girls Using Cooked Vegetables Enriched With Baobab Powder In Kilifi County- Kenya. **Riziki Dama Yaa** (A56/6834/2017), **Master of Science in Applied Human Nutrition**, University of Nairobi, 2020.
9. Commercialization Viability of an Upgraded Koche, a traditional meat product prepared in the Pastoral Regions Kenya. **Grace Warikhe**, (A56/87986/2016) **MSc. in Food Science and Technology**, University of Nairobi, 2019.
10. Effectiveness of Hermetic Storage Technologies on Mould Infestation and Aflatoxin Contamination of Maize Storage with Special Reference to Post Harvest Insect Pests in Kenya. **Jacqueline Namusalisi**, A56/85203/2016, **MSc. in Food Science and Technology**, University of Nairobi, 2019.
11. Development of a Food Supplement for Diabetes Type II Management with Enhanced Antidiabetic and Antioxidant Properties from Selected Local Foods. **Hengame Yousefifar**, (A56/82477/2015), **Master of Science in Applied Human Nutrition**, University of Nairobi, 2019.

12. “Development of a Functional Food from Bovine Tripe to Reduce By-Product Losses in Pastoral Slaughterhouses in Kenya”. **Wilson Karibe**, A56/89637/2016, **MSc. in Food Science and Technology**, University of Nairobi, 2018.
13. Development of Vitamin A Rich Yoghurt by Supplementation with Orange Fleshed Sweet Potato Puree. **Truphena Gikaara**, **Master of Science in Food Safety and Quality**, University of Nairobi, 2018.
14. Development of Complementary Porridge Flour from Local Malawian Foods with Optimized Iron and Zinc for Children. **Memory Chikondi**, A56/87035/2016, **MSc. in Food Science and Technology**, University of Nairobi, 2018.
15. Continuous solar water disinfection system for rural food processing operations. **Abok Elisha**, **MSc. in Food Science and Technology**, University of Nairobi, 2018.
16. “Process analysis, nutritional quality and consumer acceptability of porridge composite flours developed from legume-based ingredients grown in Nandi”. **Peninah Gitau**, (A56/82018/2018) **Master of Science in Food Safety and Quality**, University of Nairobi, 2018.
17. “Dietary Assessment and Nutritional Status of Children (6-23 Months) Consuming Local Food Recipes in Vihiga County, Western Kenya”, **Cherop Gladys**, **MSc, Applied Human Nutrition**, Registration no. A56/81894/2015, University of Nairobi, 2018.
18. “Development of Beef Sausages through Bovine Blood Utilization as Fat Replacer to Reduce Slaughterhouse By-Product Losses.” RELOAD project, **Pius Mathi**, **MSc in Food Science and Technology**, University of Nairobi, 2016.
19. “Demystifying the Use of Honey in Diabetes Management: A case of Type II Diabetes Patients at Kenyatta National Hospital, Nairobi.” **Martha Chege**, **Master of Science in Applied Human Nutrition**, University of Nairobi, 2016.
20. “Adherence to Pre-requisite Handling Practices of Milk Dispensers in Nairobi Supermarkets, Kenya”. **Olivia Adhiambo Olang’**. Reg. A11/69925/2013, **Postgraduate Diploma in Food Safety and Quality**, University of Nairobi, 2016.
21. “Development of Value-Added Rabbit Meat Product and Assessing Their Microbiological Quality”. **Makori Shadrack**, **Master of Science in Food Safety and Quality**, University of Nairobi, 2015.
22. “Nutrition Knowledge and Dietary Practices and Nutritional Status of Health Practitioners in Naivasha District”. **Kihara Christine Wangui**, **Master of Science in Applied Human Nutrition**, University of Nairobi, 2014.
23. “Fruits and vegetable Consumption and Determining Factors among Pastoralists of Narok North.” By **Langat Pius Kibet**, **Master of Science in Applied Human Nutrition**, University of Nairobi, 2014.
24. “Performance of Malezi bora programme on improving the nutritional knowledge of mothers and nutritional status of children aged 6-59 months in Kawangware, Nairobi.” **Gichana Margaret Bochaberi**, **Master of Science in Applied Human Nutrition**, University of Nairobi, September, 2013.
25. “Prevalence and risk factors of malnutrition among under-five’s in Meru, Kenya: A comparative study of khat (*Catha edulis*) and non- khat farming households.” **Hellen G. Ringera**, **Master of Science in Applied Human Nutrition**, University of Nairobi, September, 2013.

26. “Influence of Nutrition Knowledge and Attitude on Dietary Practices and Nutritional Status of Female University Students Aged 19-25 Years in Nairobi Central Business District, Kenya.” **Lucy Wanja Kinyua, Master of Science in Applied Human Nutrition**, University of Nairobi, September, 2013.

#### **ONGOING STUDENTS**

#### **DOCTORAL STUDENTS**

1. Impact of Cassava-Simsim Granules and Nutrition Education on Nutritional Status of HIV Seropositive Adults, Kisumu West Sub-County, Kenya. Lucia Kaluki Mutwika, (Phd/Ph/00080/2019), PHD in Nutrition (Public Health Nutrition), Department Of Nutrition And Health, School Of Public Health And Community Development Maseno University 2024.
2. Prevalence of Salmonella and Campylobacter in Broilers in the Poultry Value Chain in Kiambu County, Kenya. Angela Mwangi AFS82/62641/2024, PhD in Food Science and Technology, University of Nairobi, 2025.
3. “Household nutritional resilience against climate variability in the Karamoja region”. Caroline Kawira, PhD in Food Science and Technology, University of Nairobi, 2023.
4. “Gender Based Interventions in Mitigation of Risk of *Salmonella* and *Campylobacter* in The Poultry Value Chain in Kiambu County”. Abdiaziz Abdullahi Beinah, PhD in Food Safety and Quality, University of Nairobi, 2022.
5. “Food Safety Evaluation and Nutritional Quality Assessment of School Meals Offered in Public Primary Schools in Nairobi County, Kenya. Grace Werikhe (A81/59850/2022).” Grace Werikhe, PhD in Food Science and Technology, University of Nairobi, 2024.
6. “Development of a High-Quality Functional Food from Orange Fleshed Sweet Potato, Finger Millet and Mung Bean”, Patrick Gacheru, A81/53489/2018 PhD in Food Science and Technology, University of Nairobi, 2020.
7. “Effect of Maize Lethal Necrosis Disease on Food, Feed and Industrial End Use Quality of Maize in Kenya”. John Ndung'u Ng'ang'a (A80/52347/2017), PhD IN Crop Science and Protection University of Nairobi, 2018.
8. “Production and Evaluation of African Yam Bean (*Sphenostylis Stenocarpahochst* A. Rich) Flours for “Igbagidi” Pudding”, Peace Nkechi, A81/51423/2017, PhD in Food Science and Technology, University of Nairobi, 2017.
9. “Impact of Cassava Root-Simsim Seed Granules and Nutrition Education on Nutritional Status of HIV Seropositive Adults, Kenya”, Lucia Mutwika, Doctor of Philosophy in Nutrition (Public Health Nutrition), Maseno University, 2024.
10. “Post-Harvest Management of Horticulture Produce (Avocado) In Rwanda”, Ernest Murindwa, A81/52132/2017, PhD in Food Science and Technology, University of Nairobi, 2017.

#### **Masters students**

1. Development of Bio-Fortified Ready-To-Eat Rice And Beans Meals Supplemented With Palm Oil To Combat Micronutrient Deficiencies In Informal Settlements,



- Nairobi, Kenya. Florent Alimassi Nyembo, MSc. Food Science and Technology. Registration No. A56/42118/2022.
2. Pathogenic Contamination of Minimally Processed Fresh Produce Sold in Informal Settlements In Nairobi, Kenya. Tamana Clare Nelima, Msc. Food Safety and Quality. Adm No: A56/34153/2019
  3. Development and Quality Evaluation of Aloe Vera Wine. Praise Njoki, MSc Food Science and Technology, 2022.
  4. Development and Quality Evaluation of a Functional Food from Baobab Fruit (*Adansonia Digitata* L.) And Chia Seeds (*Salvia Hispanica*). Angela Wanjiku Mwangi, MSc. Food Science and Technology. Registration Number: A56/39147/2021
  5. Quality Kinetics and Nutritional Characteristics of Solar Dried Tomato and Tomato Powder. Ngaru Millicent N., (A56/34599/2019), (MSc. Food Safety and Quality)
  6. Ochratoxin A Contamination During Post-Harvest Handling of Market Chili By Small Holder Farmers in Elgeyo Marakwet County of Kenya By Sadiya Mohamed Abdi, MSc. Food Safety and Quality.
  7. Development of an Extruded Ready-To-Use Green Gram Based Food Product. Lucy A. Lumumba, (A56/33950/2019), MSc. Food Safety and Quality.
  8. Brenda Moraa Kimanga (Registration No. A56/35656/2019), MSc. in Food Science and Technology, University of Nairobi, 2020.
  9. Muriuki Dennis Chomba, (Registration No.), MSc. in Food Science and Technology, University of Nairobi, 2020.
  10. Effect of Nitrogen Nutrition on Yield, Postharvest Shelf-life and Quality of Solar Dried Tomatoes. Mutuli Suleiman Osokho A56/12151/2018. MSC in Horticulture.
  11. Development of a Ready to Drink Probiotic Sorghum Beverage through Malting and Fermentation, Bwamu Elisha Kiptanui, (A56/14206/2018). MSc. in Food Science and Technology, University of Nairobi, 2019.
  12. Quality Characteristics and Drying Kinetics of Mango in a Solar Tunnel Dryer using Mathematical Models. Gerald Musyoki Ndonge, Master of Science in Food Safety and Quality, University of Nairobi, 2017.
  13. Pre-Slaughter and Postharvest Handling Practices Affecting Quality Characteristics of Dried and Deep-Fried Beef Products. Oliver Chanzu. MSc. in Food Science and Technology, University of Nairobi, 2017.
  14. Characterization of fermentative bacteria in Mashanza and Musururu traditional fermented foods in Kivu, Eastern RD Congo, Baluku Safari, P, MSc. in Food Science and Technology, University of Nairobi, 2013.
  15. Evaluation of physico-chemical properties and microbial quality of deep-fried beef in Kenya” Post graduate Diploma in Food Safety and Quality, University of Nairobi, 2016.

### **13. CONFERENCES, SYMPOSIUMS AND WORKSHOPS ATTENDED**

1. Presentation at ICARF, CIRAD TRACE workshop on the TRACE project (TRansforming agriculture for Animal, Crop, and Ecosystem Health in the East African Rift) will be held in Nairobi from 27 to 29 January, 2025.
2. FAO, Kenya write-shop to support the Design of a Project to “Strengthen the Capacities of Small and Medium-sized Food Business Operators on Safety of Meat and Dairy Value Chains” in December 9-11, 2024 in Machakos.
3. 4th All African Postharvest Congress and Exhibition themed “Sustainable postharvest Management: Boosting Intra–African Agricultural Trade and Enhancing Food and Nutrition Security” held on 19th to 22nd September 2023 hosted by African Union Commission, Addis Ababa, Ethiopia.
4. Panelist speaker at the World Animal Protection informative breakfast session under the theme: “*Towards Humane, Sustainable, Regenerative and Climate-friendly Livestock Production Systems*” on 31st August 2023 at Radisson Blu-Arboretum, Nairobi, Kenya.
5. Panelist in the Afreximbank Annual Meeting in Accra, Ghana from 18-21 June 2023. Side-Event Theme: “BOOSTING SCIENCE, TECHNOLOGY, AND INNOVATION FOR SHARED PROSPERITY IN AFRICA”. 30th Anniversary and 30th Annual General Meeting of Shareholders of African Export-Import Bank (the Afreximbank”).
6. Key speaker on “Sustainable alternatives sources of proteins: benefits, challenges and opportunities” at the Animal Protein Summit, World Animal Protection, on 12-13th July 2023 at Jacaranda Hotel, Nairobi, Kenya.
7. Net mapping One Health Stakeholders, Training of Trainers (ToT) session on 30th & 31st May, 2023, Park Inn by Radisson Hotel, Kigali under COHESA One Health project.
8. 2023 Feed the Future Innovation Labs Regional Partners Meeting on “Systemic and Innovative Solutions for Climate Adaptation and Mitigation in Agriculture, Food, and Nutrition Systems” on May 15-19, 2023, Windsor Hotel, Nairobi, Kenya.
9. Retail Trade Association of Kenya (RETRAK) and the International Institute for Sustainable Development (IISD) on food loss and food waste in Kenya on Thursday, June 15th, 2023, Safari Park Hotel & Casino, Nairobi, Kenya.
10. MS Training Centre for Development Cooperation (MS-TCDC) for the seminar “Science Engagement Days 2023: Equitable Partnerships in development research projects”, held on 28th to 29th March 2023 by the Danida Fellowship Centre by funds from the Ministry of Foreign Affairs of Denmark at Usa River, Tanzania.
11. Feed the Future Innovation Lab for Food Safety (FSIL) Annual Meeting under Feed the Future Food Safety Innovation Lab (FSIL) with Cooperative Agreement Number 7200AA19LE00003, funded by the United States Agency for International Development (USAID) in San Marcos, Texas on November 9-11, 2022.
12. Panelist, ‘*Safe and Nutritious, Consumer-driven Foods*’ in the ARUA-SFS Science Day with the theme, “*Unleashing Potential of Africa’s Crops-Identifying Gaps and Opportunities at Local and Global level to guide*

*Transdisciplinary Research in Africa's Crops*" held on September 21, 2022 at the Towers MLT 404; Main campus University of Nairobi.

13. ACAFP Webinar: Risk assessment approaches for food safety: HESI and JIFSAN Initiatives" held on Friday, August 19, 2022 4:00 PM - 5:00 PM EAT.
14. Science Media Café on One Health (OH) workshop under 'Capacitating One Health in Eastern and Southern Africa' (COHESA project) with International Service for the Acquisition of Agri-biotech Applications (ISAAA) AfriCenter on 26<sup>th</sup> July 2022.
15. One Health (OH) stakeholder net-mapping workshop for COHESA project "Capacitating One Health in Eastern and Southern Africa" under International Service for the Acquisition of Agri-biotech Applications (ISAAA) AfriCenter on 17th and 18th May 2022 at MovenPick Hotel, Westlands.
16. Workshop To Develop The Benchmarks For Food Safety Programme, ILRI, IUCEA, FAO, 22-25 MARCH 2022, Protea Skyz Hotel, Kampala, Uganda
17. Capacity Building Workshop for the Media, Policy Makers, Academia and Scientists on promoting Seed Policy Framework that Foster Food and Seed Sovereignty and Protection of Bio-cultural Diversity in Kenya and EAC region, by Biodiversity and Biosafety Association of Kenya (BIBA) at Royal Tulip Canaan Hotel on 16<sup>th</sup> - 17<sup>th</sup> December, 2021.
18. COLEACP E-meeting SPS with NPPO's from ACP countries 04 May 2021 on "How import controls of fresh fruit and vegetables are carried out in Europe example of Belgium - main implications and challenges".
19. HEAL Community of Practice Webinar WASH and biosecurity interventions to reduce the burden of infections and AMR in animal agricultural settings', with Chris Pinto, Research Fellow at the London School of Hygiene and Tropical Medicine (LSHTM) at 1300 EAT, ILRI.
20. Workshop on 'Mycotoxins in food and feed' Wednesday, January 20<sup>th</sup> 2021 at 4:00 PM (EAT) by AOAC Sub-Saharan Section and SAVETCON Event Management.
21. One Health Centre in Africa (OHRECA) launch, International Livestock Research Institute (ILRI) on 22nd October 2020.
22. Webinar, "Food Fraud & Food Authenticity: how to detect and manage in the supply chain", AOAC SSA on Wednesday, October 28 2020 AT 4:00 PM (EAT).
23. "World Food Day Colloquium 2020", The Food Security Center invites you to save the date for the World Food Day Colloquium 2020 "Future Agricultural and Food Systems: Ensuring Food Security during Crises" on Friday, October 16<sup>th</sup>, 2020. <https://fsc.uni-hohenheim.de/en/wfdc2020>
24. Food Aid Quality Review (FAQR) summit, "The Future of Food Assistance for Nutrition: Evidence Summit II!" USAID and Tufts University, October 5-8, 2020.
25. Webinar, The Global Food Banking Network, "Save Food, Fight Hunger". 29<sup>th</sup> September, 2020 Champions 12.3.
26. Webinar Peer Review Week, "Celebrating Peer Review Week with ORCID" on Thu, Sep 24, 2020 5:00 PM - 6:00 PM AST.
27. Webinar Champions 12.3, "Success or Crisis in 2030? The Fight to Halve Food Loss and Waste", Sep 24, 2020 09:00 AM in Eastern Time (US and Canada), Webinar ID 966 3950 5013

28. Online Webinar “Assessing trade-offs between food loss and waste and GHG emissions” Agro-Chain Greenhouse gas Emission (ACGE) calculator. Consortium for Innovations in PH Loss and Food Waste Reduction September 21 2020 AT 10:00 AM (EAT).
29. Quantifying Salt & Sodium in foods - challenges and implications, Wednesday, September 16 2020 AT 4:00 PM (EAT), Savetcon Event Management, webinar hosted by the AOAC Sub-Saharan Africa Section.
30. RECIRCULATE Workshop “Innovation and Entrepreneurship”. UK Research and Innovation under GCRF with Lancaster University, UK and Center for Global Eco-Innovation, 24th -27th February, 2020.
31. Stakeholder workshop on Guidelines for Regulation of Animal Biotechnologies in Kenya: Genetically Modified Organisms (GMOs) such as Plants, Animals and Microorganisms in Kenya. Animal Biotechnology Workshop at Park Inn-By Radison Hotel, Westlands, Nairobi, 10th & 11th March 2020.
32. VIRCA Plus Project Technical updates workshop, Genetically modified (GM) cassava research in Kenya, 5-6th February, 2020, Alupe, Busia.
33. 2nd All Africa Postharvest Congress and Exhibition held at African Union Commission in Addis Ababa Ethiopia on 17 to 20 September, 2019.
34. 2<sup>nd</sup> All Africa Postharvest Congress and Exhibition Planning Committee Meeting held at Stellenbosch University, Cape town on 22 to 26 July, 2019.
35. Practical training on European phytosanitary regulations: phytosanitary certificates and additional declarations held in Dar Es Salaam - Tanzania, 24 - 26 April 2019 under COLEACP ‘Fit for Market’ program.
36. Research for Development (R4D) Conference on “Improving the Effectiveness of the Research-to-Translation Value Chain” under LASER PULSE project, the Long-term Assistance and Services for Research (LASER) - Partners for University-Led Solutions Engine (PULSE) consortium on May 6-8, 2019 at the Speke Resort and Conference Centre Munyonyo, Kampala, Uganda.
37. Technical training and promotion conference on Solar Cooling for Agriculture for academia by Strathmore Energy Research Center, Strathmore University by University of Hohenheim on 18<sup>th</sup> March, 2019.
38. 4th International Congress Hunger Hidden, *“Hidden Hunger and the transformation of food systems: How to combat the double burden of malnutrition?”* on February 27 - March 1, 2019 University of Hohenheim, Stuttgart, Germany
39. Inter-regional workshop on “Sensor Technology and Agricultural Robots for Food security in Changing Climates: Opportunity for developing countries” held in Kasetsart University in Bangkok, Thailand on November 15-16, 2018
40. Workshop on Food Safety and Food Loss Issues Prioritization Workshop by ILRI and ReSAKSS-ECA held IN Naivasha on October 2<sup>nd</sup> to 4<sup>th</sup>, 2018
41. World Food Day Colloquium on “Cooperatives: Essentials for food security?! on 15<sup>th</sup> to 16<sup>th</sup> October, 2018 at the University of Hohenheim, Stuttgart, Germany.
42. Stakeholder workshop on Validation of Poultry and Meat Occupational Standards and Curricula held at Utalii College, Nairobi on 25<sup>th</sup> September, 2018 under TVET Curriculum Development, Assessment and Certification Council (TVET CDACC) and GIZ.

43. Tropentag, 2018 “International Conference on Research on Food Security, Natural Resource Management and Rural Development”, Global Food Security and Food Safety: The role of Universities held on 17-19 September, 2018 in Ghent, Belgium.
44. The Food Fortification Summit, Fortifying for Food and Nutrition Security sponsored by GAIN and EU project on Strengthening the Kenya National Food Fortification Programme on 4<sup>th</sup> July, 2018 at Safari Park Hotel, Nairobi.
45. Global Mind Talk, Aflatoxin workshop on “The silent crisis: Why aflatoxin is an unsolved threat to Africa’s Food?” held in ICRISAT ON 30<sup>TH</sup> May, 2018, at World Agroforestry Centre in Nairobi.
46. Strengthening African Food Processors (SAP) to reduce food losses project launch workshop, August 21-22, 2018, CAVS, UoN.
47. FAO Sensitization Meeting for Integration of Nutrition in Agricultural and Food Systems Curriculum at the University of Nairobi, Kenya on 13th June 2018.
48. International conference on “Making Small Holder Agriculture More Nutrition-Sensitive: The Role of Innovation and Extension” 22-23<sup>rd</sup> March, 2018, Nairobi Kenya by Africa Harvest, University of Nairobi and Gottingen University.
49. Tropentag, 2017 “International Conference on Research on Food Security, Natural Resource Management and Rural Development”, Future Agriculture: Socio-ecological Transitions and bio-cultural shift held on 20-22 September, 2017 in University of Bonn, Germany.
50. African Women in Biosciences Forum held on Thursday, April, 20th, 2017 at the Royal Orchid Hotel in Nairobi sponsored by International Service for the Acquisition of gar-biotech Applications (ISAA) and Association of Women in Science and Engineering (AWSE).
51. The 1st All Africa Postharvest Congress and Exhibition “Reducing postharvest losses: Sustainable Solutions for Africa” 2017 held on 28th to 31 March, 2017 at Safari Park Hotel, Nairobi, Kenya.
52. The First East African Food Conference; Speaker (Publishing Ethics) in the Pre-conference Scholarly Writing Workshop organized by AJFAND and FoSTeP-K held on 29-31st March, 2016.
53. 4th Annual RELOAD project workshop on “Reduction of losses and value addition by strengthening small and medium enterprises in food processing to sustain value chains in East African postharvest systems” sponsored by the Federal Ministry of Education & Research and Unikassel held on November 10th to 15th, 2016 in Mukono, Uganda
54. Regional Youth Congress on New Learning approaches and Career Opportunities in Agriculture at Makerere University from 2nd - 5th November, 2016 under PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).

55. Presenter at the World Food Day Colloquium, “No Sun - No Food”, Climate Disasters and Food Security 200 years after Tambora at the Food Security Center, University of Hohenheim, Germany held on October 18th, 2016.
56. Trainer, “Lecturer Didactic Training Workshop” at CSD Seminar room, University of Nairobi, PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
57. Facilitator, “Interpersonal skills” for Training Workshop for Peer Student Mentors Programme under PREPARE BSC project supported by EU through ACP-EDULINK II programme held on Tuesday 25 October, 2016 in CAVS, Kabete
58. Science Communication Training Program for Biosciences Eastern and Central Africa (BecA) and Virus Resistant cassava for Africa (VIRCA) scientists, facilitated by ISAAA held on 28th - 29th June, 2016, ILRI, Nairobi.
59. “Reduction of losses and value addition by strengthening small and medium enterprises in food processing to sustain value chains in East African postharvest systems” RELOAD Project workshop held in University of Kassel, Witzenhausen, Germany in 16th to 19th September, 2017.
60. Dissemination workshop held on 13th April at Central Catering Unit (CCU), University of Nairobi on “Enhancing the Quality of graduates of agriculture to meet tomorrow’s food security challenge (PREPARE-BSc)” funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II)
61. Workshop on Development of appropriate nyirinyiri processing technologies manual and hazard analysis critical control point plan 30th January to 3th February, 2017 in Nanyuki under the State Department of Livestock, Regional Pastoral Livelihoods Resilience Project (RPLRP), Ministry of Agriculture, Livestock and Fisheries.
62. ESCOBOX: Smart Monitoring, billing and control for pro-poor access to energy services workshop held on 11th January 2017 funded by Engineering and Physical Science Research Council (EPSRC) of the United Kingdom.
63. Co-facilitator, for short course programme on “Social network Analysis for Food security” held on 13th to 17th December, 2016 at 844 building, CAVs, University of Nairobi sponsored by DAAD and Food security Center, University of Hohenheim.
64. Participant in World Food Day Colloquium, “Grasslands - secret resource for a hungry world”, including presentation of Justus von Liebig Awards, sponsored by DAAD held in the Food Security Center, University of Hohenheim, Germany on October 16th, 2015.
65. 2015 Joint AAUN Australian Awards Agricultural Research Symposium, 25 November, 2015, Nairobi, Kenya.
66. Key note speaker on The Role of Agriculture in addressing Food and Nutrition Security, the Annual National Conference on ‘Enhancing Sustainable Food and

- Nutrition Security in Kenya by JICA Ex-Participants Alumni of Kenya (JEPAK) held on 20TH November, 2014 at Panafric Hotel, Nairobi.
67. International Conference for Youth in Africa on ‘Factoring Youth Voices into Critical Issues: Agenda on Environmental Sustainability, Climate Change Mitigation and Adaptation, Food Security and Nutrition in Africa held in the University of Nairobi, Kenya on 9th to 10th March, 2012.
  68. II World Congress of Public Health and I Latin American Congress of Community Nutrition” held in Alfandega Congress Center, Porto, Portugal on September 23-25, 2010.
  69. International Conference on African Nutritional Epidemiology (ANEC) organized by Center for Public Health Research and Kenya Medical Research Institute, held in Nairobi, Kenya on 4-8, October, 2010.
  70. The African Crop Science Society Conference, Cape Town, South Africa 2009: Science and Technology Supporting Food Security in Africa 28 September to 1 October, 2009.
  71. Curriculum Development and review workshop, facilitator in formulation of PhD in Community Nutrition and Monitoring and Evaluation; PhD in Food Science and Nutrition; MSc. Community Nutrition and Monitoring and Evaluation; MSc. in Food Science and Nutrition and review of BSc. Food Science and Nutrition; BSc Human Nutrition and Dietetics for Department of Food Science and Nutrition, Karatina University held on 23rd to 25th February 2016 in the Senior Common Room, Karatina University.
  72. Facilitator in Stakeholders’ workshop on Proposed Syllabus for MSc in Biosafety held at KARLO Headquarters, Nairobi, Kenya on Monday, 11th November, 2015.
  73. Annual RELOAD workshop “Reduction of losses and value addition by strengthening small and medium enterprises in food processing to sustain value chains in East African postharvest systems” sponsored by the Federal Ministry of Education & Research and Unikassel Witzenhausen, held on 29th September-2nd October, 2015 In Egerton University, ARC Hotel-Neissuit Conference Auditorium.
  74. Annual workshop meeting held in Arusha on 2nd to 6th February, 2015 under PREPARE BSC project supported by EU through ACP-EDULINK II programme.
  75. “Workshop for experienced lecturers: Improving and internationalizing University courses” sponsored by the Swedish Ministry of Finance held in Kasangati Hotel under Makerere University and Swedish University of Agricultural Sciences (SLU) in Kampala, Uganda on 10th to 12th June 2014.
  76. RELOAD Project workshop held in University of Kassel, Witzenhausen, Germany in 28th September to 3rd October, 2014.
  77. “Africa Days” of BMBF (Federal Ministry of education and Research) and RELOAD Project held on 16th to 18th March, 2014 in Berlin Germany.

78. Study tour at the Department of Science Education, University of Copenhagen, Denmark under PREPARE BSC project supported by EU through ACP-EDULINK II programme on 8th - 16th February, 2014.
79. Inception workshop for needs assessment with stakeholders in the meat value chain under the RELOAD Project held in Naivasha on 29th January to 1st February, 2014.
80. Inception workshop meeting Project with partners under EU project on “Enhancing the Quality of graduates of agriculture to meet tomorrow’s food security challenge (PREPARE-BSc)” funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II) - Reference: EuropeAid/132023/D/ACT/ACPTPS held on 9th to 11th January, 2014 at Chak Guest House.
81. FAO/WHO workshop on the official launch of task force to spearhead activities to address the development of antimicrobial resistance in the meat value chain held on October 13th -14th, 2012 at Sarova Panafric hotel, Nairobi, Kenya. Rapporteur, Dr. CN Kunyanga.
82. International workshop of the RELOAD Coordination group held in PIBID Processing Plant, Bushenyi, Uganda in 21 - 22nd May, 2012. Sponsored by the Federal Ministry of Education & Research and Unikassel Witzenhausen.
83. RELOAD workshop “Reduction of losses and value addition by strengthening small and medium enterprises in food processing to sustain value chains in East African postharvest systems” sponsored by the Federal Ministry of Education & Research and Unikassel Witzenhausen, held on 26th - 28th March, 2012 in College of Agriculture and Veterinary Sciences, University of Nairobi.
84. FAO and University of Nairobi workshop on “Prevention and control of aflatoxin contamination in the maize value chain in Kenya” held at Jacaranda hotel, Nairobi, Kenya on 28th to 30th September, 2011. Rapporteur, Dr. CN Kunyanga.
85. FAO Expert Consultation Meeting on the Review of FAO Meat Inspection and Hygiene Guidelines held in Nairobi, Kenya on 25th - 26th August, 2011. Rapporteur, Dr. CN Kunyanga.
86. Development of Food Safety curriculum in the Department of Food Science, Nutrition & Technology, University of Nairobi and UNIDO.
87. Capacity building in grants and Academic research proposal development for staff and graduate students, 27-31 July 2009 CAVS, University of Nairobi, Kenya.
88. Safe Food Fair Food: Launch of Situation analysis paper on animal source foods, GTZ/IRLI workshop on 28th July, 2010, Nairobi.

#### **14. MEDIA AND NON-JOURNAL ARTICLES**



1. Agrilinks - Professor Catherine Nkirote Kunyanga: New Initiative Will Advance Food Safety in Kenya's Poultry Value Chain. Posted on June 3rd, 2024, "Protecting Health, Empowering Communities: New Initiative Will Advance Food Safety in Kenya's Poultry Value Chain". Feed the Future Innovation Lab for Food Safety | Amanda Garris, World Food Safety Day, June 3, 2024.
2. Agrilinks - Professor Catherine Nkirote Kunyanga: Championing Food Safety and Nutrition in Kenya. Agrilinks contributor, Feed the Future Innovation Lab for Food Safety, January 30, 2024. <https://agrilinks.org/post/professor-catherine-nkirote-kunyanga-championing-food-safety-and-nutrition-kenya>
3. Talk Africa - 'Scientists Urge African Governments To Support Youth-Led Agricultural Technologies' published on September 10, 2023. <https://www.talkafrica.co.ke/scientists-urge-african-governments-to-support-youth-led-in-agricultural-technologies/>
4. UON-UNILEVER partnership on the Great Millet Quest. Unilever unveils Sh2 billion initiative for millet products. The Standard, Business, By Gerard Nyele, Jan 27, 2024. <https://www.standardmedia.co.ke/business/amp/business/article/2001489302/unilever-unveils-sh2-billion-initiative-for-millet-products>
5. The Standard, "Implement team's proposals to rid Kenya of toxic pesticides" By Catherine Kunyanga, Sep. 3, 2023. <https://www.standardmedia.co.ke/health/topic/Pesticides-Safety>.
6. People's Daily "How eating too much meat is fuelling a health crisis". <https://www.pd.co.ke/lifestyle/how-eating-too-much-meat-is-fuelling-a-health-crisis-191225/>. Monday, July 17th, 2023 11:27 | By Malemba Mkongo.
7. Blog The GM Foods Dilemma, October 11, 2022. <https://profiles.uonbi.ac.ke/ckunyanga/blog/2022/10/gm-foods-dilemma>.
8. The Standard, Opinion piece on pesticides "It is heartbreaking that farmers are still using harmful pesticides" By Catherine Kunyanga | May 22nd 2022 |.
9. Scientific contributor and reviewer of the White Paper report on "Pesticides in Kenya: Why our health, environment and food security are at stake" published by the Route to Food Initiative (RTFI) and dossier circulated on 6th July 2021.
10. Expert research on Public Petition (No. 70 of 2019) regarding withdrawal of harmful pesticides by the Pest Control Products Board (PCPB) and presentation of pesticide petition to the parliamentary health committee.
11. Member of the task force that produced the pesticide dossier including conducting literature review of the food safety aspects of the pesticides.
12. KTN News panel discussion on pesticides under Route to Food initiative on 31st July, 2020, 7:30pm-9:00pm

13. Letter to Editor, Health Matters, Dr. Catherine Kunyanga, “Independent food safety regulator urgently needed”, The Star, Page 12, Friday, 03/01/2020, the-star.co.ke.
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23. KTN news interviews on Postharvest losses in Kenya, 2017
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26. Baseline Evaluation Report ACIDI VOCA, Mercy Corps, Smart Regional Consultants (SRC) and BOMA under the Feed the Future Kenya Livestock Market Systems, USAID, 2018.
27. Report on “Enhancing Processing Techniques and Market Linkages along the Livestock Value Chain in Kenya” in Meru, Tharaka Nithi and Kitui Counties funded by USDA for the “Kenya K-SALES Food for Progress” (KSA) Program, Land O’Lakes, 2017.
28. Report of AGRA Farmers Organization Support Centre in Africa (FOSCA) for staff retreat and way forward, 2013.
29. Report of FAO/WHO workshop on the official launch of task force to spearhead activities to address the development of antimicrobial resistance in the meat value chain, 2012.
30. Report of FAO workshop on “Prevention and control of aflatoxin contamination in the maize value chain in Kenya, 2011”.
31. Report of FAO Expert Consultation Meeting on the Review of FAO Meat Inspection and Hygiene Guidelines, 2011.

#### **Training manuals**

1. Best practices manual in post-harvest handling of livestock meat products and business development produced under the Kenya Semi- Arid Livestock Enhancement Support Project (K-SALES), Land O’ Lakes funded by United States Department of Agriculture (USDA).
2. Training manual on by-product utilization for livestock processors and slaughterhouses produced under the Kenya Semi- Arid Livestock Enhancement Support Project (K-SALES), Land O’ Lakes funded by United States Department of Agriculture (USDA).
3. Training manual on slaughter processing techniques for livestock enterprises in Kenya, produced under the Kenya Semi- Arid Livestock Enhancement Support Project (K-SALES), Land O’ Lakes funded by United States Department of Agriculture (USDA).
4. Training manual on processing and value addition produced under the Kenya Semi- Arid Livestock Enhancement Support Project (K-SALES), Land O’ Lakes funded by United States Department of Agriculture (USDA).
5. Training manual on Business Planning and Financial Management for livestock enterprises in Kenya, produced under the Kenya Semi- Arid Livestock Enhancement Support Project (K-SALES), Land O’ Lakes funded by United States Department of Agriculture (USDA).
6. Marketing Manual for Livestock Processors in Kenya, produced under the USDA funded KSALES project.

7. Best practices manual in post-harvest handling of livestock meat and meat products under RELOAD project.
8. Training manual on development of ready to eat mixed product from bovine tripe rolls (matumbo) under RELOAD project.
9. Training manual on camel meat sausage processing under RELOAD project.
10. Training manual on Meat Processing and Meat Preservation under RELOAD project.
11. Training manual on Ready to Eat Meat snacks and deep fried meat products for commercialization under RELOAD project.
12. Training manual on upgraded 'Koche' product under RELOAD project.
13. Training manual on fabrication of a solar dryer for horticultural crops, a resource manual produced under USAID-funded Kenya Horticultural Competitiveness Project (KHCP) and Quality Management Systems and Associates (QSM), April 2014
14. Production and postharvest manual on sweet potatoes, a resource manual produced under USAID-funded Kenya Horticultural Competitiveness Project (KHCP) and Quality Management Systems and Associates (QSM), April 2014
15. Production and postharvest manual on African Leafy vegetables, a resource manual produced under USAID-funded Kenya Horticultural Competitiveness Project (KHCP) and Quality Management Systems and Associates (QSM), April 2014
16. Legumes and pulses: A training manual for smallholder producers and processors, a resource manual produced under USAID-funded Kenya Horticultural Competitiveness Project (KHCP) and Quality Management Systems and Associates (QSM), April 2014
17. Pigeon peas: Training manual for smallholder producers and processors, a resource manual produced under USAID-funded Kenya Horticultural Competitiveness Project (KHCP) and Quality Management Systems and Associates (QSM), April 2014.
18. Production and postharvest manual on mangoes, a resource manual produced under USAID-funded Kenya Horticultural Competitiveness Project (KHCP) and Quality Management Systems and Associates (QSM), April 2014

## **15. COMMUNITY SOCIAL RESPONSIBILITY, CAPACITY BUILDING AND OUTREACH SERVICES.**

- Farmer participatory variety and technology selection for New Mwangaza Digital and Muuo wa kwa Kisai farmer groups under 'Validation and promotion of integrated Climate-Smart green gram technologies for improved livelihoods in Kenya.' KSCAP project in Kyua Location, Katangi ward, Yatta sub-county, Machakos County, 4<sup>th</sup> February, 2021.
- Farmer field days on silicon treatment and PHL mango practices, EMBU, 2020.
- Establishment of Food Processing hub in the department.
- Establishment of aggregation centers in Karurumo and Masii in Embu and Machakos counties.

- Installation of solar processing plants in Voi, Embu, Meru, Isolo, Voi, Malindi etc. for SMEs and private sectors.
- Value addition trainings and technical support for SMEs and private sector.
- Nutrition training for SM4ES in Africa and Asia.
- Food safety training for SMEs and private sector.
- Mentorship of ALUMNI and support to students' startups and SMEs in Kenya.
- Chair of the Board of Management (BOM) in Uringu Girls High School in Meru County.
- Vice-chair, Board of Management (BOM) in Nkuene Girls High School in Meru County.
- Chairperson, RAY of Hope Kenya (ROHK) for orphan children under St Joseph' ACK church, Kabete.
- Tree Planting for 2014 Wangari Maathai Day and Africa Environmental Day on "YOUTH - Healing the Earth; Environment. Education. Empowerment" held in Othaya on 3/03/2014 by Wangari Maathai Institute for Peace & Environmental Studies and UoN.
- Experiential learning and community participation under 'Interdisciplinary Land Use and Natural Resource Management (ILUNRM)' course 2014 sponsored by Wangari Maathai Institute for Peace & Environmental Studies.
- Training on solar drying of fruits and vegetables using solar dryers under USAID-funded Kenya Horticultural Competitiveness Project (KHCP) and Quality Management Systems and Associates (QSM), April 2014
- Training on postharvest handling technologies of African Leafy vegetables under USAID-funded Kenya Horticultural Competitiveness Project (KHCP) and Quality Management Systems and Associates (QSM), April 2014.
- Training on tomato paste, sauces and ketch production from tomatoes for smallholder producers and processors under USAID-funded Kenya Horticultural Competitiveness Project (KHCP) and Quality Management Systems and Associates (QSM), April 2014.
- Training on solar drying of fruits using tunnel solar dryers and hygiene practices in processing for Sungold Limited, Meru County, 2013.
- Training on postharvest handling technologies of green banana under USAID-funded Kenya Horticultural Competitiveness Project (KHCP) and Quality Management Systems and Associates (QSM), April 2014.
- Training of meat processing and value addition of meat for SMEs and slaughterhouses in pastoral regions, 2016.

## **16. REFEREES:**

Prof. Stephen Kiama  
The Vice Chancellor,  
University of Nairobi  
P.O. Box 30197 -00100  
Nairobi, Kenya

Cell: +254 722 380 971; Email: [vc@uonbi.ac.ke](mailto:vc@uonbi.ac.ke)

Prof. Sanja Ilic

Associate Professor in Human Nutrition, Food Safety State Specialist,  
The Ohio State University, 331B Campbell Hall, 1787 Neil Ave,  
Columbus, OH 43210.

Phone: (614) 292-4076; Email: [ilic.2@osu.edu](mailto:ilic.2@osu.edu)

Prof. Kathy Colverson,

Gender studies,

University of Florida, 2250 Shealy Drive, Bldg. 459, Room 125.

PO Box 110910; Gainesville, Florida, USA 32611-0910.

Phone: 352-294-7644; Email: [kcolverson@ufl.edu](mailto:kcolverson@ufl.edu).

Prof. George Chemining'wa,

Department of Plant Science & Crop Protection,

College of Agriculture and Veterinary Sciences,

University of Nairobi,

P.O. Box 29053, 00625, Nairobi.

Cell phone : +254721723806 ; Email: [george.cheminingwa@uonbi.ac.ke](mailto:george.cheminingwa@uonbi.ac.ke)

Prof. Moses Nyangito,

Dean, Faculty of Agriculture,

University of Nairobi,

P. O Box 29053, 00625, Nairobi.

Cell phone +254725665972; Email: [deanagric@uonbi.ac.ke](mailto:deanagric@uonbi.ac.ke)