**CURRICULUM VITAE**

**PERSONAL DETAILS**

**Name:**  Lucy Gicuku Njue (Bsc, Msc and PhD)

**Present address:** Department of food Science, Nutrition and Technology

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**Place of birth:** Embu County, Kenya.

**Marital status:** Married with two children

**Profession:** Food Microbiologist/ Food Safety and Quality

**Occupation:** Lecturer, Dept. of Food Science, Nutrition and Technology,

Faculty of Agriculture, University of Nairobi.

**EDUCATIONAL ACHIEVEMENTS**

**2016:** PhD (in Veterinary Public Health).University of Nairobi.

**Thesis title**: A study of garlic extracts their antimicrobial activity, safety and effect on shelf life of meat

**2009:** Master of Science (MSc. In Microbiology), Kenyatta University.

**Thesis title**: Efficacy of Garlic *(Allium sativum)* and Onion *( A l l i u m cepa)* juice in common meat pathogens

**2006:** Bachelor of Education Science (Botany and Zoology), Kenyatta University

**1991**: Bachelor of Science, Agricultural education and Extension; Egerton University

**Career Goals:** To create, advance and disseminate knowledge through research, publications, Product development, effective teaching and community service.

**PROFESSIONAL WORKING EXPERIENCE**

**2015 to date**

Lecturer, University of Nairobi, Department of food science, Nutrition and Technology.

*Teaching areas*: General Microbiology, Food Microbiology and parasitology/ protection, Introduction to food Industries, Food Toxicology, Environmental Health, Food hygiene and sanitation, Hazards in Food, Risk analysis, Food safety and quality management, Advance science (advanced microbiology), Food science and food protection, Food safety and Consumer behavior.

**2013- 2015**

Part time and Guest lecturer, Department of Food Science, Nutrition & Technology. Teaching areas: Food microbiology, General microbiology

**2008 -2015:** Nairobi Technical Training Institute. *Teaching areas*: Food and general Microbiology, Medical laboratories, Anatomy& physiology, Genetics and cytology, applied microbiology, Science laboratory Technology (SLT)

**1993-2007:** Riara secondary school. Biology/ Agriculture teacher.

**CURRENT RESEARCH INTERESTS**

1. Application of molecular techniques in food microbiology

2. Reduction of Post-harvest Losses

3. Food safety and Value addition

4. Risk analysis/assessment.

**AWARDS**

**Research Grants Awarded**

**2012:** Awarded 900,000ksh grant by National Council for Science and Technology for my PhD

Research work

**Certificates**

**2019:** Certificate of Being a Gold member of FoSTeP- Kenya

**2019:** Certificate for attending training on Pedagogy, Andragogy and Mentorship

**2018:** Certificate for mentoring you at Kalithiria Methodist Church of Kenya

2018: Certificate for attending Food Safety &Hygiene Training

**2017:** Memorandum of Understanding (MOU) for steering collaboration between University of Nairobi and Nairobi Technical Training Institute

**2017:** Certificate of training in Didactict (UON)

**1990-2006:** Muranga / Kiambu Districts Secondary School Regular external assessor of KNEC

(Kenya National Examination Council) Agricultural Projects.

**2004:** Trainee/beneficiary of SMASS (Strengthening Mathematics and Science Subjects in

Secondary Schools) projects. Acquired Teaching, team work and Organistional skills.

**ADMINISTRATIVE RESPONSIBILITIES**

1. Appointed as an organizing Committee for the faculty of Agriculture Agro2019 Conference
2. Appointed as Coordinator of masters in Food safety and quality in regards in mentorship 2017
3. Appointed as a Coordinator in review of FSQ masters Curriculum 2017; ongoing
4. Appointed Coordinator for third years students attachments and Fourth year Academic Trips 2017

**TRAININGS/ WORKSHOPS/ SHORT COURSES:**

**2019**: Training on Pedagogy, Andragogy and Mentorship (University of Nairobi).

**2019;** Workshop on Launching of Orange Fleshed Sweet Potatoe International (ILRI)

**2018:** Exchange programme France on Laboratory analytical methods Kenya-France Pamoja project

**2018:** Grant proposal writing workshop (UON)

**2018:** Workshop onFood safety and Hygiene organized by Food Science and Technology platform of Kenya ( FoSTep- K

**2017:** Open Data Management training at College of Agriculture and Veterinary Sciences.

**2017:** Didacticts training Workshop at College of Agriculture and Veterinary Sciences

**2016:** Electric Library Resources Training Workshop at College of Agriculture and Veterinary

Sciences.

**EDITORSHIP**

1. 2018: Book Title: **Your Career Questions answered** by Sam Muriuki, Publisher; EMMA kuria- Queenex

2. 2019: Book Title: **The Teachers’ Influence** by Sam Muriuki, Publisher; EMMA kuria- Queenex

**MEMBERSHIP(S) AND AFFILIATION(S)**

1. **2009 up to date**: life member of American society of Microbiology
2. **2018 to date**: Life member Food Science and Technology platform of Kenya ( FoSTep- K)

**COMPLETED SUPRVISED MASTERS THESES/DISSERTATION**

1. **MissTruphena Gikaara:** Orange Fleshed sweet potato thickened yoghurt, 2018

2. **Miss Maureen M. Kuboka,:** Occurrence of aflatoxin M1 in raw milk traded in peri-urban

Nairobi, and the effect of boiling and fermentation 2019

3. .**Miss Beatrice Jeruto Birge:** Microbial risk assessment of street vended poultry products in

the informal settlements of Nairobi County .2019

**Miss Gloire muvunga**: Reduction of afflation contamination of maize flour foods in three cities

of north-kivu province of d. r. congo by nixtamalization preparation for

Consumption 2019

**PATENTED**

1. 2018: Orange Fleshed sweet potato thickened yoghurt (KE/UM/2018/1046) *by Dr G. Abong, Truphena Gikaara, Catherine Kunyanga, Lucy G.Njue*

**ONGOING MASTERS THESES/DISSERTATION**

1. **Mr Stephen Kimani:** Prevalence of antibiotics in raw and processed fresh milk in reference to dairy farming practices in Kiambu County, Kenya
2. **Laurreta Mugo**: Food safety awareness of edible insect vendors and microbial load of edible grasshoppers, *Ruspolia differens* marketed in Uganda
3. **Martha Nasimiyu Simiyu :** Hygiene knowledge and practices of street vendors in kasarani sub-county and the characteristics of deep fried fish
4. **David Obinda Kavunja** :Microbial quality of mixed vegetable salads vended in pipeline ward of nairobi county, Kenya
5. **John Kimemia Mwangi:** Effects of dietary replacement of soybean and fish meal with poultry feather hydrolysate on broilers performance and its economic importance
6. **Gibson Mapopa Jere:** post harvest handling knowledge and practices of food handlers under school meals programme and intake of Aflatoxin and Fumonisin in Salima district, Malawi
7. **Miano Ann Wanjiru:** post-harvest handling practices of cow peas leaves by farmers and traders in Kitui and Taita taveta Counties of Kenya
8. **Samuel Mwatha:** Assessment of microbial and chemical profile of fermented cassava leaves from selected kenya coastal varieties

**ONGOING PhD THESES**

**1.** **Marie-Rose kambabazi:** Development of a bean based flour containing vegetables and fish (*Limnothrissa miodon*) grown in Rwanda

2 **Juvenal Djangwani,** ; Prevalence and identification of *Brucella* species and mycobacteria in milk and milk products obtained and consumed from informal milk markets in Rwanda

3 **Akah, Nkechi Peace;** Development and quality evaluation of pudding from African yam bean (*Sphenostylis* *stenocarpa*) flour based on a traditional production process

**4.Mannara Charles:** Management of Aflatoxins in maize based school foods and use of nixtamalisation in reducing the level of Aflatoxin in “Githeri”: A case study of Turkana County

**RESEARCH PUBLICATIONS**

**Njue L. G, (2018).** Isolation Rates of Specific Pathogens from Meat Carcasses In Nairobi County, and their Susceptibility to Garlic Extract

**Njue, L.G., Ombui J.N, Kanja, L.W, (2017)**::Identification of the Antimicrobial Compounds in Garlic Grown at Laikipia County International Journal of Agricultural Research and Review: ISSN-2360-7971, Vol. 5(5):pp 636-643, May, 2017.

**Njue, L.G., Ombui J.N, Kanja, L.W, (2017)**: Assessment of Effectiveness of Garlic Extract from Laikipia County, on Shelf-Life of Meat Journal of Agricultural Economics, Extension and Rural Development: ISSN-2360-798X, Vol. 5(5): pp, 632-641, May, 2017

**Njue, L.G., Ombui J.N, Kanja, L.W, (2015)**: Evaluation of oral toxicity level of ethyl acetate extract, from garlic (allium sativum) in onorrh dawleys rats as per OECD guidelines 423 ( *Journal of food science and technology*).

**Njue, L.G., Ombui J.N, Kanja, L.W, (2014**). Efficacy of antimicrobial activity of garlic extracts on bacterial pathogens commonl found to contaminate meat (*East African Medical Journal*) **,**Pp: 2-5

**Njue, L.G., Ombui J.N, Kanja, L.W, (2009).** Efficacy of Garlic *(Allium sativum)* and Onion *( A l l i u m cepa)* juice in common meat pathogens (*Journal of tropical microbiology and biotechnology*).

**PUBLISHED RESEARCH PROJECTS**

1. **G. K. Gituma1 and L. G. Njue, (2019).** Preservation of Strawberries Using Guava extract
2. **M. L. Makhungu1 and L. G. Njue (2019),** Development of Instant Ox Tail Soup Supplemented with Mushroom and Moringa Leaves Extract.
3. **C. A. Orwa1 and L. G. Njue (2019).**Efficacy of Crude Extract from Candle Brush (*Senna didymobotrya*) Leaves against *Aspergillus niger* in Reduction of Post-harvest Losses in Tomatoes (2019)
4. **C.Kunyanga1\* J.Amimo2 L. Njue1 G. Chemining'wa (2018).** Consumer Risk Exposure to Chemical and Microbial Hazards Through Consumption of Fruits and Vegetables in Kenya (2018)

**HOBBIES**

• Reading recent journals on the advancement in science world.

• Team works skills / socializing.

• Travelling

**REFEREES**

**Prof. Jackson N.Ombui**

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College of Agriculture and Veterinary Sciences

University of Nairobi,

P.O. Box 29053-00625,

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**Prof. Wambui Kogi- Makau**

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