

CURRICULUM VITAE

PERSONAL DETAILS

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

Present address: Department of food Science, Nutrition and Technology

College of Agriculture and Veterinary Sciences,

University of Nairobi,

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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 (*Allium cepa*) juice in common meat pathogens

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

1990: 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, Introduction to food Industries.

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

2019: Certificate for being a Reviewer African Journal of Food, Agriculture, Nutrition and Development (AJFAND),

2019: Certificate for being a Reviewer of book of Abstracts, Agro.2019 Conference

2019: Certificate for being a member of the organizing Committee Agro.2019 Conference

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 Didactic (UON)

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

2004: Trainee/beneficiary of SMASS (Strengthening Mathematics and Science Subjects in Secondary Schools) projects. Acquired Teaching, team work and Organizational skills

1990-2006: Muranga / Kiambu Districts Secondary School Regular external assessor of KNEC (Kenya National Examination Council) Agricultural Projects.

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ADMINISTRATIVE RESPONSIBILITIES

1. Chairperson, Association of Green Champions, (AGC) 2020
2. Appointed as an organizing Committee for the faculty of Agriculture Agro2019 Conference
3. Appointed as Coordinator of masters in Food safety and quality in regards in mentorship 2017
4. Appointed as a Coordinator in review of FSQ masters and PhD Curriculum 2017; ongoing
5. 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 on Food 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: Didactics 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
3. 2019. Book Title; **Book on Abstracts** Agro 2019 Conference

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. **Miss Truphena 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 Birgen:** Microbial risk assessment of street vended poultry products in the informal settlements of Nairobi County .2019
4. **Miss Gloire muvunga:** Reduction of aflatoxin contamination of maize flour foods in three cities of north-kivu province of d. r. Congo by nixtamalization preparation for Consumption 2019
6. Miss **Laurreta Mugo:** Food safety awareness of edible insect vendors and microbial load of edible grasshoppers, *Ruspolia differens* marketed in Uganda 2020

PATENTED

1. **2019:** Efficacy garlic extracts, their antimicrobial properties, safety and Shelf life of meat KE/P/2020/3406
2. **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. **Martha Nasimiyu Simiyu :** Hygiene knowledge and practices of street vendors in kasarani sub-county and the characteristics of deep fried fish
3. **David Obinda Kavunja :**Microbial quality of mixed vegetable salads vended in pipeline ward of nairobi county, Kenya
4. **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
5. **Miano Ann Wanjiru:** post-harvest handling practices of cow peas leaves by farmers and traders in Kitui and Taita taveta Counties of Kenya
6. **Samuel Mwatha:** Assessment of microbial and chemical profile of fermented cassava leaves from selected kenya coastal varieties
7. **Joyce Wangeci Wanjiru:** Pretreatments prior to roasting to reduce aflatoxin levels in peanut butter
8. **Aaron Kitonyi:** Microbial quality during processing in poultry slaughterhouse in Nairobi
9. **Ahmed Ali Jama:** Consumption patterns and heavy metals exposure in commercial fish at Garowe fish market Puntland, Somalia.

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

5. **Victoria Kaminde**: adaptive capacity of slaughterhouses in reducing risk of emerging *escherichia coli* strains in red meat in kenya

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 **Beatrice J. Birgen, 1 Lucy G. Njue, et al., (2020).** Determinants of Microbial Contamination of Street-Vended Chicken Products Sold in Nairobi County, Kenya. **International Journal of Food Science**
- 2 **C.Kunyanga^{1*} J.Amimo² L. Njue¹ G. Chemining'wa (2018).** Consumer Risk Exposure to Chemical and Microbial Hazards Through Consumption of Fruits and Vegetables in Kenya **Food Science and Quality Management**
- 3 **G. K. Gituma¹ and L. G. Njue, (2019).** Preservation of Strawberries Using Guava extract **Asian Food Science Journal**
- 4 **M. W. Mugo¹ and L. G. Njue^{1*} (2019)** Development of a High Value Nutritious Baking Flour from Dried Ripe Banana Peels **Asian Food Science Journal**
- 5 **M. L. Makhungu¹ and L. G. Njue (2019),** Development of Instant Ox Tail Soup Supplemented with Mushroom and Moringa Leaves Extract. **Asian Food Science Journal**
- 6 **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) **Asian Food Science Journal**
- 7 **Beatrice J. Birgen^{1*}, Lucy G. Njue¹, Dasel M. Kaindi¹ and Fredrick O. Ogotu (2019).** Qualitative Risk Assessment of *Campylobacter jejuni* in Street Vended Poultry in Informal Settlements of Nairobi County. **European Journal of Nutrition & Food Safety**
- 8 **Stephen K. Njoroge^{1*} and Lucy G. Njue² (2019).** Awareness of Hygiene and Safety Practices on Raw Milk Produced and consumed in Kiambu County, Kenya **Asian Food Science Journal**

HOBBIES

- Reading recent journals on the advancement in science world.
- Team works skills / socializing.
- Travelling

REFEREES

Prof. Jackson N.Ombui

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