



Inspiring Innovation and Leadership

## KARATINA UNIVERSITY

---

### STAFF PROFILE

---

Attach Profile picture [passport size]

1. **Name:** Michael N.I. Lokuruka

2. **Designation:** Associate Professor and Director, Research, Innovation and Extension

3. Contact details

**School:** Agriculture and Biotechnology

**Department:** Food Science and Nutrition

**Email Address** [mlokuruka@karu.ac.ke](mailto:mlokuruka@karu.ac.ke) and [mlokuruka@gmail.com](mailto:mlokuruka@gmail.com)

**Research Links:** ORCID ID: 0000-0002-3183-4345. Research Gate;

<https://www.google.com/search?q=researchgate+prof+lokuruka&ei=-Kmt>; **Google Scholar-**

<https://scholar.google/citations?user=eilExgAAAAJ&hl=en>. **LinkedIn Profile:**

<https://www.linkedin.com/in/prof-michael-lokuruka-06796230/>

4. **Describe your professional self** I am a highly responsible, hardworking & committed Food Scientist, who reliably & consistently delivers any job I set myself to achieve and deliver, on time and of the quality expected, and aspires to be the reference authority in the wider area of Food BioSciences and specifically in Food and Fish Quality Assurance and Research; I aspire to passionately utilize my potential, wide knowledge, skills and to practice good work ethics driven by the Values and Mission of the Organization to realize my highest potential through excellence and offer exceptional service to my Students, Colleagues, the Public and Stakeholders. My Work Motto is: Listen with Curiosity, Act with Passion and Achieve with Integrity

**Interpersonal skills:** Excellent listening skills; critical thinking & communication; self-driven, with highly honed team-work and administrative skills & thrives best under pressure & challenge.

5. **Area/ Field of specialization:** Food BioSciences

6. **Research interests:** Food/Fish Quality Assurance and Toxicology; Food Quality Systems; Food Law and Standards; Food Culture and Nutrition; Food Security, Safety and Nutrition; Postharvest Food Systems/value chains and Food Industry Management; Food Composition; Food, Health and Disease

## 7. Some Peer-reviewed Publications

**Lokuruka, Michael N.I.** Roles of Omega-3 Fatty Acids in Eye Health and Disease: A Review. *Asian Journal of Food Research and Nutrition* 2024; **3**(3), 621-640. Available at: <https://journalajfrn.com/index.php/AJFRN/article/view/160..>

**Lokuruka, Michael N. I.** Crop Production in Irrigation Schemes in Turkana County, Kenya, Before and During COVID-19 (2018-2021). *Asian Research Journal of Agriculture* 2023, **16**(3), p 41–50. First published online on 8<sup>th</sup> August, 2023. Available at:

<https://doi.org/10.9734/arja/2023/v16i3391>.

**Lokuruka, Michael N.I.** Fish Lipids Functionality in Health and Disease. *Asian Food Science Journal* 2022; **21**(12): 48-62. Published online on 22<sup>nd</sup> December, 2022. Found at:

<https://doi.org/10.9734/AFSJ/2022/v21i12605>.

**Lokuruka Michael N.I.** Roles of Lipids in Health and Disease. *Journal of Food and Nutritional Sciences Research* 2022; **3**(1), 169-192. Published online 5<sup>th</sup> February, 2022. Found at:

<https://doi.org/10.37512/1400>.

**Lokuruka, Michael N. I.** Improving Food and Nutrition Security in Kenya’s Arid Lands-A Mini Review. *Asian Research Journal of Agriculture*; **14**(3), 45-63. Published Online 28<sup>th</sup> September, 2021. Available at: <https://doi.org/10.9734/arja/2021/v14i330129>.

Sewe, DS. And **Lokuruka, Michael N.I.** Coping Strategies to Food Insecurity Employed by Students of Karatina University, Kenya. *Journal of Food and Nutritional Sciences Research* 2020; **2**(1), 100-111. Available at: <https://doi.org/10.37512/900>.

Muteti, M.K., **Lokuruka, Michael N.I.** and Yasindi, Andrew. (2020). Nutrient Content of On-Farm Formulated feeds for raising Nile Tilapia (*Oreochromis Niloticus*): Implications for the Aquaculture Industry in Kenya, *African Journal of Food Agriculture, Nutrition and Development* 2020; **20**(4): 16127-16143. Available at: <https://doi.org/10.18697/ajfand.92.18085>.

Njoroge, JG. and **Lokuruka, Michael N.I.** Sensory Acceptability of Cookies Fortified with Tilapia Fish Bone Powder. *Journal of Food and Nutritional Sciences Research* 2020; **2**(1), 92-99. Available at: <https://doi.org/10.37512/800>.

**Lokuruka, Michael N.I.** Food and Nutrition Security in East Africa (Kenya, Uganda and Tanzania-status, challenges and prospects), Chapter 6 in: Barakat Mahmoud (Editor): “*Food Security in Africa*”, ISBN-978-1-78985-734-4; IntechOpen Publishers, London, 2020. DOI: <https://dx.doi.org/10.5772/intechopen.95036>.

**Lokuruka, Michael N.I.** Food and Nutrition Security in East Africa (Rwanda, Burundi and South Sudan-status, challenges and prospects), Chapter 7 in: Barakat Mahmoud (Editor)-“*Food Security in Africa*”, ISBN-978-1-78985-734-4; IntechOpen Publishers, London, 2020. DOI: <https://dx.doi.org/10.5772/intechopen.95037>.

Hodbod J, Stevenson EG Jed, Akall Gregory, Akuja Thomas, Angelei Ikal, Avery S, Buffavand L, Derbyshire S, Elias AB, Eulenberger I, Gownaris N, Kamski B, Kurewa A, **Lokuruka Michael**, Mercy F, Okenwa D, Rodgers C, Tebbs E (2019). Social-Ecological Change in the Turkana Basin: A Synthesis of Current Developments. *Ambio Journal* (Springer Publications), Vol 48, issue 1, p 1-17. First published online 08 Jan 2019. Available at: <https://doi.org/10.1007/s13280-018-1139->

**Lokuruka, Michael N.I.** Overview of Dairy Processing and Marketing in East African Dairy Value Chains: Opportunities and Challenges. *African Journal of Food Science* **10**(11): 254-262; Nov 2016; DOI 10.587/AJFS2016.1465

**Lokuruka, Michael N.I.** A preliminary survey of animal handling and cultural slaughter Practices among Kenyan Communities Potential influence on meat quality. *African Journal of Food, Agriculture, Nutrition and Development* Vol. **16**(1): 10670-10685. Published March, 2016. DOI 8697/ajfand.73.15255.

**Lokuruka, Michael N.I.** Food Quality Perspectives in African Fish Products: Practices, Challenges and Prospects. *International J. Fisheries and aquaculture Sciences*. 2016; 6(1): 15-32. [https://www.ripublication.com/irph/ijfas16/ijfasv6n1\\_03.pdf](https://www.ripublication.com/irph/ijfas16/ijfasv6n1_03.pdf).

**Lokuruka, Michael N.I.** Role of Zinc in human health with reference to African elderly. A Review. *African Journal of Food, Agriculture, Nutrition and Development* 2013; **12**(2): 6646-6664. <https://www.ajol.info/index.php/ajfand/article/view/82782>.

**Lokuruka, Michael N.I.** A literature review of role of obesity in adult health with reference to Africa: a review. *African Journal of Food, Agriculture, Nutrition and Development* 2013; **13**(1): 7088-7104. Available at: <https://www.ajfand.net/Volume13/No1/Lokuruka11000.pdf>.

**Lokuruka, Michael N.I.** Scombrotoxin formation in Kenya's fish products- a food safety concern. *Professional Journal* 2012; **4**(2):20-23.

**Lokuruka, Michael N.I.** Effects of processing on soybean nutrients and potential impact on consumer health: an overview. *African Journal of Food, Agriculture, Nutrition and Development* 2010; **11**(4): 5000-5017. Available at: <https://www.ajol.info/index.php/ajfand/article/view/69170>.

**Lokuruka, Michael N.I.** Soybean nutritional properties: the good and the bad about soy foods Consumption-a review. *African Journal of Food, Agriculture, Nutrition and Development*. 2010; **10**(4): 4349-4359. Available at: <https://www.ajol.info/index.php/ajfand/article/view/55335>.

**Lokuruka, Michael N.I.** Role of animal meats in cardiovascular diseases with reference to Sub-Saharan Africa: a review. *African Journal of Food, Agriculture, Nutrition and Development* 2010; **10**(1): 1966-1982. Available at: <https://www.ajol.info/index.php/ajfand/article/view/51468>.

Gogo L. Achieng., Anakalo S., **Lokuruka, Michael N.I.** and Sang, W. Antimicrobial effect of Juice extract from fermented cabbage juice on select food borne bacterial pathogens. *Journal of Applied Sciences Research* 2010; **6**(2): 1801-1813. Available at: [https://www.researchgate.net/publication/286805544\\_Antimicrobial\\_effect\\_of\\_juice\\_extract\\_from\\_fermented\\_cabbage\\_against\\_select\\_food-borne\\_bacterial\\_pathogens](https://www.researchgate.net/publication/286805544_Antimicrobial_effect_of_juice_extract_from_fermented_cabbage_against_select_food-borne_bacterial_pathogens).

**Lokuruka, Michael N.I.** Scombrotoxicosis in African fisheries-implications for International Fish trade: an overview. *African Journal of Food, Agriculture, Nutrition and Development* 2009; **9**(7): 1617-1634. <http://www.bioline.org.br/request?nd09087>.

Okeyo, George O., **Lokuruka, Michael N.I.** and Matofari, Joseph O. Nutritional composition and shelf life of the Lake Victoria Nile perch (*Lates niloticus*) stored in ice. *African Journal of Food, Agriculture, Nutrition and Development* 2009; **9**(3): 901-919. Available at:

<https://www.researchgate.net/journal/African-Journal-of-Food-Agriculture-Nutrition-and-Development-1684-5358>.

**Lokuruka, Michael N.I.** Role of Fatty Acids of Milk and Dairy Products in Cardiovascular Diseases: A Review. African Journal of Food, Agriculture, Nutrition and Development 2007; Vol 7(1): 1-16. <https://ajfand.net/Volume7/No1/Lokuruka2100.pdf>.

**Lokuruka, Michael N.I.** Meat is the Meal and Status is by Meat: Recognition of Rank, Wealth, And Respect Through Meat in Turkana Culture; July 2006; Food and Foodways Journal; 14(3-4):201-229; DOI:[10.1080/07409710600962001](https://doi.org/10.1080/07409710600962001).