

## STAFF PROFILE



**Dr. Grace Nyakonyu Kamotho**

### Employment details:

- Senior Lecturer,
- Department of Agricultural Sciences,
- School of Agriculture and Biotechnology

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- Google Scholar - <https://scholar.google.com> › citations
- ResearchGate - <https://www.researchgate.net> › profile › Grace-Kamotho

**Area of specialization:** Crop sciences (crop production, crop protection, postharvest, plant biotechnology, seed science and food security).

### Biography

Dr. Grace Nyakonyu Kamotho is a Senior Lecturer in the School of Agriculture and Biotechnology at Karatina University where she has been a faculty member since 2011. She is currently the Dean, School of

Agriculture and Biotechnology after her appointment to the position in 2022. Grace was the Founder Head of Department of Crop Science department, currently the department of Agricultural Sciences. She obtained her undergraduate degree in Horticulture from Egerton University. Grace has a master degree in Crop Production and Seed Technology from Moi University and Ph.D. in Seed Science from the University of Eldoret. She was awarded a post-doctoral fellowship by TWAS- DFG at Leibniz University, Germany in 2021. Her research interests lie in the area of crop sciences (crop production, crop protection, postharvest, plant biotechnology, seed science and food security).

Grace has been involved in collaborative research projects financed by various organizations including Seed for Life by National Museums of Kenya (NMK), Kirk House Trust-UK and National Research Fund – Kenya. She is currently a principal investigator (PI) of a research project on aflatoxin management in maize, and a co-investigator on research project on banana based food and feeds.

Grace has mobilized resources to Karatina University, inform of equipment worth several millions of Kenyan Shillings. She has participated in scientific conferences and has published several articles in peer reviewed journals. She has chaired and co-chaired conference organizing committees. Grace has always kept abreast in her field of specialization by attending professional courses. She has a rich international exposure from Israel, Egypt, Netherlands, Germany, Poland, Italy, Cameroon, Uganda, Tanzania and Zanzibar.

### **Some of the Peer-reviewed Publications**

Grace N. Kamotho, Lydia A. Asiko, James K. Kibanyu, Phares R. Kinyua, Rebecca N. Karaya, Patrick M. Muthee and Zipporah M. Mwathi (2023). Assessment of production constraints and contribution of avocado to food security and income in the Mount Kenya region, Kenya. *International Journal of Agriculture, Environment and Bioresearch* Vol. 08, No. 05; 2023 ISSN: 2456-8643, <https://doi.org/10.35410/IJAEB.2023.5859>

Kamotho Grace N. and Munga, Zacharia M. (2022). Determination of the effect of fermentation on the rate of plant nutrient release from plant tissues. *International Journal of Agriculture, Environment and Bioresearch* Vol. 07, No. 05; 2022, ISSN: 2456-8643, <https://doi.org/10.35410/IJAEB.2022.5769>

Grace N. Kamotho, Miriam G. Kinyua and Reuben M. Muasya (2022). Assessing the contribution of dolichos bean (*Lablab purpureus* L. (sweet)) to food security in a changing climate in Kenya. *International Journal of Agriculture, Environment and Bioresearch* Vol. 07, No. 02; 2022, ISSN: 2456-8643, <https://doi.org/10.35410/IJAEB.2022.5711>

Jacob M. Mwandikwa and Grace N. Kamotho, (2022). Assessing the efficacy of wild basil (*Ocimum americanum* L. (Walp)) in the management of cowpea weevil (*Callosobruchus maculatus*). *Journal of Agricultural Science and Practice*, Vol.(7) (1), *Journal of Agricultural Science and Practice* Volume 7(1), pages 1-5, February 2022 Article Number: DEDBB8181 ISSN: 2536-7072 <https://doi.org/10.31248/JASP2021.292> *Journal of Agricultural Science and Practice* Volume 7(1), pages 1-5, February 2022 Article Number: DEDBB8181 ISSN: 2536-7072 <https://doi.org/10.31248/JASP2021.292> <https://integrityresjournals.org/journal/JASP/article-full-text-pdf/DEDBB8181>

Grace N. Kamotho, Reuben M. Muasya, Miriam G. Kinyua (2017). Assessment of phenotypic diversity of Kenyan dolichos bean (*Lablab purpureus* L. sweet) germplasm based on morphological markers. *International Journal of Agriculture, Environment and Bioresearch* Vol. 02, No. 06; 2017, ISSN: 2456-8643. <https://doi.org/10.35410/IJAEB.2017>

Grace N. Kamotho, Miriam G. Kinyua, Reuben M. Muasya, Simon T. Gichuki, Bramwel W. Wanjala

, Esther N. Kimani , Eliezah N. Kamau (2016). Assessment of genetic diversity of Kenyan dolichos bean (*Lablab purpureus* L. sweet) using simple sequence repeat (SSR) markers. *International Journal of Agriculture, Environment and Bioresearch* Vol. 01, No. 01; 2016, ISSN: 2456-8643. <https://doi.org/10.35410/IJAEB.2016>