

Dr. Grace Nyakonyu Kamotho



| PERSONAL DETAILS | |
|------------------------|---|
| Name | Dr. Grace Nyakonyu Kamotho |
| Position | Senior Lecturer |
| Department | Agricultural Sciences |
| Area of specialization | Horticulture/Seed Science/Plant Biotechnology |
| Address | 1957-10101, Karatina |
| Corporate email | gkamotho@karu.ac.ke |
| Personal email | Gracekamotho16@gmail.com |

| ACADEMIC BACKGROUND | | |
|---------------------|--|-----------------------|
| Year of Graduation | Qualification | Institution |
| 2015 | PhD Seed Science | University of Eldoret |
| 2004 | MSc. Crop Production and Seed Technology | Moi University |
| 1993 | BSc. Horticulture | Egerton University |
| | | |

| PUBLICATIONS | | | | |
|--------------|---|--|---|------|
| S/NO | PUBLICATION | PUBLISHER | YEAR | DATE |
| 1 | Assessment of phenotypic diversity of Kenyan dolichos bean (<i>Lablab purpureus</i> l. sweet) germplasm based on morphological markers | <i>International Journal of Agriculture, Environment and Bioresearch</i> | Grace N. Kamotho, Reuben M. Muasya, Miriam G. Kinyua | 2017 |
| 2 | Assessment of genetic diversity of Kenyan dolichos bean (<i>Lablab purpureus</i> l. Sweet) using simple sequence repeat (SSR) markers | <i>International Journal of Agriculture, Environment and Bioresearch</i> | Grace N. Kamotho, Miriam G. Kinyua, Reuben M. Muasya, Simon T. Gichuki, Bramwel W. Wanjala, Esther N. Kimani and Eliezah N. Kamau | 2016 |
| 3 | Performance of dolichos bean (<i>Lablab purpureus</i> (L.) Sweet) under different agro-ecological environments in Kenya | <i>Researchjournali's Journal of Agriculture</i> | Kamotho G.N., Kinyua M.G. and Muasya R.M | 2015 |
| 4 | Effects of packaging and storage conditions on seed quality of spider plant (<i>Cleome gynandra</i> L.) | <i>African Journal of Food, Agriculture, Nutrition and Development</i> | Kamotho G.N., Mathenge P.W., MuasyaR.M. and Dulloo M.E., | 2014 |
| 5 | Effects of maturity stage, desiccation and storage period on seed quality of spider plant | <i>Research desk</i> | Kamotho G.N., Mathenge P.W., MuasyaR.M. and Dulloo M.E | 2013 |

| | | | | |
|---|--|--|---|------|
| 6 | Effects of management practice and maturity stage on seed quality and yield of spider plant (<i>Cleome gynandra</i> L.) | <i>Research desk</i> | Kamotho G.N., Mathenge P.W., Muasya R.M. and Dulloo M.E | 2013 |
| 7 | Book chapter - Dolichos (<i>Lablab purpureus</i> L. sweet) bean improvement using mutation and biotechnology techniques | Danste Agencies: Nairobi, Kenya | Grace N. Kamotho, , Miriam G. Kinyua, Reuben M. Muasya | 2012 |
| 8 | Baseline survey on production practices, constraints and utilization of dolichos bean in Kenya: Implications for dolichos bean improvement | International Journal of Professional Practice | Grace N. Kamotho, , Miriam G. Kinyua, Reuben M. Muasya | 2010 |

| PAPERS PRESENTED IN CONFERENCES/SEMINARS | | | |
|--|------|--|---|
| S/No | Year | Conference name and Venue | Paper title |
| 1 | 2020 | 20 th HAK Workshop on Sustainable Horticultural Production in the tropics, 30 th November to 4 th December, 2020, Virtually | Evaluating the efficacy of edible plant extracts on shelf life of mango (<i>Mangifera indica</i>) and tomato (<i>Lycopersicon esculentum</i>) |
| 2 | 2020 | 20 th HAK Workshop on Sustainable Horticultural Production in the tropics, 30 th November to 4 th December, 2020, Virtually | Evaluation of selected hydroponic media on growth and yield of spinach (<i>Spinacia oleracea</i>) |
| 3 | 2020 | 20 th HAK Workshop on Sustainable Horticultural Production in the tropics, 30 th November to 4 th December, 2020, Virtually | Factors influencing avocado marketing in Nyeri county: a case study of Karatina ward |
| 4 | 2019 | 19 th HAK Workshop on Sustainable Horticultural Production in the tropics, 25 th November to 29 th November, 2019, Tea Research Institute, Kenya. | Effect of fermentation on the rate of nutrient release from tissues of Lantana, stinging nettle and Tithonia. |

| | | | |
|----|------|---|--|
| 5 | 2019 | 19 th HAK Workshop on Sustainable Horticultural Production in the tropics, 25 th November to 29 th November, 2019, Tea Research Institute, Kenya. | Evaluation of efficacy of selected botanicals in inducing resistance in cucumber (<i>Cucumis sativus</i>) against anthracnose disease (<i>Colletotrichum lagenarium</i>) |
| 6 | 2019 | 19 th HAK Workshop on Sustainable Horticultural Production in the tropics, 25 th November to 29 th November, 2019, Tea Research Institute, Kenya. | Determination of efficacy of beeswax as a preservative agent of banana fruit (<i>Musa acuminata</i>) |
| 7 | 2019 | 19 th HAK Workshop on Sustainable Horticultural Production in the tropics, 25 th November to 29 th November, 2019, Tea Research Institute, Kenya. | Assessing the performance of kales using soilless substrates |
| 8 | 2019 | 19 th HAK Workshop on Sustainable Horticultural Production in the tropics, 25 th November to 29 th November, 2019, Tea Research Institute, Kenya. | Assessment of efficacy of neem and eucalyptus extracts for the control of melon fruit fly (<i>Bactrocera cucurbitae</i>) in courgette (<i>Cucurbita pepo</i>) |
| 9 | 2019 | 19 th HAK Workshop on Sustainable Horticultural Production in the tropics, 25 th November to 29 th November, 2019, Tea Research Institute, Kenya. | Comparison of seaweed extract and plant hormone auxin in shoot initiation of bougainvillea (<i>Bougainvillea spectabilis</i> L.) |
| 10 | 2018 | 18 th HAK Workshop on Sustainable Horticultural Production in the tropics, 25 th November to 30 th November, 2018, Taita Taveta University, Kenya. | Analysis of physico-chemical attributes of harvested open-field and greenhouse grown tomato fruits |
| 11 | 2018 | RUFORUM conference, 22 nd -26 th , October 2018, Nairobi, Kenya. | Mainstreaming dolichos bean (<i>Lablab purpureus</i> L.) to enhance food security in Africa |
| 12 | 2018 | 17 th HAK Workshop on Sustainable Horticultural Production in the tropics, University, 12 th to 16 th February, 2018. | Evaluation of dolichos bean (<i>Lablab purpureus</i> (L.) Sweet) under different agro-ecological environments in Kenya |

| | | | |
|----|------|---|---|
| 13 | 2016 | 16 th HAK Workshop on Sustainable Horticultural Production in the tropics, Chuka University, 28 th November to 2 nd December, 2016. | Genetic diversity analysis of Kenyan dolichos bean (<i>Lablab purpureus</i> L. Sweet) using simple sequence repeat (SSR) markers |
| 14 | 2014 | Karatina University, 3 rd International Conference on Tea Science, Karatina University, 24 th -27 th September, 2014. | Addressing the education and training needs of the tea sector in Kenya: The case of School of Agriculture and Biotechnology |
| 15 | 2013 | 13 th Horticultural Association of Kenya Workshop, Meru University of Science and Technology, 3 rd -6 th December, 2013. | Effect of maturity stage, desiccation and storage period on seed quality of spider plant (<i>Cleome gynandra</i> L.). |
| 16 | 2013 | 5 th Academic conference, Mount Kenya University, 28-30 th August, 2013 | Management of cowpea weevil in stored cowpea (<i>Vigna unguiculata</i> L. Walp). grains using botanicals |
| 17 | 2013 | 1 st International Research and Innovation Conference, Mount Kenya University, 16-18 th May, 2013 | Effect of maturity stage on seed quality and yield of spider plant (<i>Cleome gynandra</i> L.) |
| 18 | 2005 | 5 TH Horticulture Workshop on Sustainable Horticultural production in the Tropics. Maseno University, Kenya. November 27 th to 30 th November, 2005. | Effects of seed moisture and storage temperature on seed quality of <i>Cleome gynandra</i> L. |
| 19 | 2004 | 4 TH Horticulture workshop on Sustainable Horticultural Production in the Tropics, Eldoret, Kenya, 24 th to 27 th November, 2004 | Effect of Desiccation on Seed Quality of <i>Cleome gynandra</i> L. |
| 20 | 2003 | 3 RD Horticulture Workshop on Sustainable Horticultural Production in the Tropics, Kisumu, Kenya, 26 th to 29 th November, 2003 | Effect of packaging on Seed Quality of <i>Cleome gynandra</i> L. |