

CURRICULUM VITAE

Dr. Phyllis Wambui Muturi

1. Personal Information:

Name: Phyllis Wambui Muturi
Gender: Female
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E-mail: muturi.phyllis@embuni.ac.ke / mutuphy@yahoo.com
Nationality: Kenyan
Language: English and Kiswahili

2. Qualifications:

2008 - 2013: **Doctor of Philosophy Degree in Plant Breeding and Biotechnology** (by course work and research), Makerere University, Uganda. Thesis Title: “Resistance to the African and spotted stem borers in sorghum”
2005-2008: **Master of Science in Crop Protection**, University of Nairobi, Kenya. Thesis title; “Participatory evaluation of sweet potato varieties for response to virus infection in Central Kenya”
2001-2005: **Bachelor of Science in Agriculture** (Honors) University of Nairobi
1996-1999: Certificate for Secondary Education, Mary Leakey Girls School (B + PLUS)
1987-1995: Certificate for Primary Education, Kerwa Primary School

3. Fellowships:

- 2020 - to 2025: The world Academy of Science (TWAS) Young Affiliate
- 2021 – 2022. **Early Career Fellowship with organization for women in science for developing countries (OWSD)** to carry out a research entitled ‘Integration of Sustainable Integrated Pest Management Strategies from Selected Local Plants for Improved Food Security among Small Holder Farmers in Semi-Arid Lands of Eastern Kenya’
- 2019. Fellow in an **Exchange Programme by ‘Linnaeus-Palm’** to travel to Swedish University of Agricultural Sciences (SLU), Department of Ecology to teach and supervise.
- 2018: **Africa Biosciences Challenge Fund (ABCF)** Fellowship to unravel the genetic diversity of elite Bambara Groundnut in Kenya using Single Nucleotide Polymorphism Markers
- 2015 –2016: **Field Attachment Programme Award (FAPA)** Internship to support research on ‘Resistance to the African and spotted stem borers in sorghum in Kenya’
- 2015: **African Women in Agricultural Research and Development (AWARD)** Fellowship for Advanced Science Training at Iowa State University, USA
- 2013: **Carneigie Fellow** at Makerere University, Uganda

4. Employment History/Work Experience

2022- to date: **Senior Lecturer/Researcher**, Department of Water & Agricultural Resource Management, University of Embu, Kenya

Roles and responsibilities

- Fundraising for research grants in areas of food security.
- Conduct research and disseminate research findings through publishing
- Quality teaching and has been ranked by students in excellent category.
- Participate in development of new programmes and review of the existing ones
- Supervise undergraduate and post graduate students project research

- Community engagements
- Academic Leader for Plant Breeding and Biotechnology Programme
- Academic program leader, Seed Technology Programme

2014- 2021: **Lecturer/Researcher**, Department of Agricultural Resource Management, University of Embu, Kenya

Roles and responsibilities

- Fundraising for research grants in areas of food security.
- Conduct research and disseminate research findings through publishing
- Quality teaching and has been ranked by students in excellent category
- Participate in development of new programmes and review of the existing ones
- Supervise undergraduate and post graduate students project research
- Community engagements
- Academic Leader for Plant Breeding and Biotechnology Programme

2010 - 2013: **PhD Research Scholar** at International Crops Research Institute for Semi-Arid Tropics (ICRISAT, Nairobi)

Roles and responsibilities

1. Designed sorghum breeding experiments and layouts
2. Phenotypic data collection in sorghum breeding experiments and analysis
3. Organised, planted and managed sorghum breeding seed increase activities
4. Participated in organisation of farmer field days/dissemination of information

September 2012 -December 2012: **Part-time Lecturer**, Chuka University, Kenya

Roles and Responsibilities

1. Teaching the hours indicated in the catalogue and scheduled in the timetable
2. Covered the syllabus within the semester
3. Offered and invigilated the University exams in the semester that I taught
4. Marked and submitted the exams results to the Head of Department within 2 weeks after the end of examination administration

2011-2012: **PhD Student Assistantship**, Department of Plant Science and Crop Protection, University of Nairobi, Kenya

Roles and responsibilities

1. Prepared teaching materials and identify objectives in assigned courses
2. Facilitated Plant Breeding and Biotechnology, Principles of Crop Protection, Plant Pathology, Crop Physiology and Seed Technology courses
3. Evaluated students by administering examinations at the end of the course
4. Guided undergraduate students in special projects
5. Provided counseling to individuals regarding career development

2007-2008: **Trainer**, Dudutech Kenya Limited, Naivasha

Roles and responsibilities

1. Contributed to designing training materials for diverse target groups
2. Participated in development of strategic plans to accomplish task and meet objectives
3. Trained and assessed trainees on work-based training courses and wrote reports
4. Evaluation of training feedback to monitor course effectiveness and improvement
5. Developed training materials for different courses
6. Contributed to revision of programmes to adapt to changes in the work place

5. Administrative Responsibilities

2018 to Date: Deputy Dean of Students, University of Embu

Roles and responsibilities

- 1) Developing strategies to facilitate social and academic development of students
- 2) Supporting the personal development of students involved in co-curricular activities
- 3) Handling gender related issues involving the student community
- 4) Acting as a liaison officer between University and Higher Education Loans Board
- 5) Acting as the presiding officer during students organization election

Ag. Students Counsellor, University of Embu *(on different months and years)*

Roles and responsibilities

Supporting students in psycho-social welfare

Acting Dean of Students, University of Embu *(on different months and years)*

Roles and responsibilities

1. Responding to student complaints
2. Acting as a link between University management and students community
3. Organising for students fora such as public talks, sensitization meetings
4. Coordinate activities of student government
5. Oversee the discipline of students
6. Guide and encourage the students to form and develop professional and social clubs and societies
7. Provide the necessary administrative support to registered student clubs and societies
8. Acting as the presiding officer during students organization election

Acting Chairman, Department of Agricultural Resource Management *(on different months and years)*

Roles and responsibilities

1. Academic and Administrative tasks in the Department
2. Providing leadership in the Department
3. Responding to student inquiries
4. Representing the Department in university committee meetings

2017 - 2018: Examinations Coordinator, School of Agriculture

Duties and responsibilities

1. Prepared and consolidated all departmental examination results at the end of each semester and academic year
2. Prepared and compiled all examination results, in consultation with the Dean of School for presentation to senate
3. Dealt with all matters arising from students in relation to examination results at school such as missing marks, special and supplementary examinations results
4. Prepared provisional examination results for the students in the school

2015 –2017: Examinations Coordinator, Department of Agricultural Resource Management

Duties and responsibilities

1. Ensuring that lecturers submit their draft examinations as per the approved examination schedule and arranging for the internal and external moderation of the same
2. Ensuring that all course assessments are carried out in accordance to the examination policies in operation
3. Preparing and compiling all examination results in consultation with the Chairman of Department , for presentation at the school Academic Board

4. Dealing with all matters arising from students in relation to examination results at school such as missing marks, special and supplementary examinations results

2014-2016: Secretary to the School of Agriculture Board

Duties and responsibilities

1. To take minutes during school board meetings
2. To distribute minutes of school Board Meeting to members and kept a clear record of the minutes

2014-2016: Secretary to the Department Post Graduate Board

Terms of reference

1. Vet post graduate proposals
2. Record appointment of Department Post Graduate Exams and Thesis Examiners
3. Discuss any other business pertaining to post graduate studies

6. Postgraduate Supervision

1. Genetic Diversity of *Alternaria Solani* and *Phytophthora Infestans* in Tomato Fields in Mwea, Kenya and Their Management using Selected Plant Extracts and Essential Oils. **Lydia Gakunyi Mugao**, Reg. No. A800/192/2016 University of Embu. **Graduated with PhD in Crop Protection.**
2. Agronomic Performance, Genetic Diversity and Nutritional Composition of Horned Melon Accessions from Selected Agro-Ecological Zones in Kenya. **Marline Hanny Owino**. Reg No. A505/1146/2017, University of Embu recognition. Completed in 2020 and **Graduated with MSc. in Horticulture.**
3. The Effects of Drought on Interactions between Aphids, Aphid Predators and *Fusarium* Infections in Spring Sown Barley in Sweden. **Martin Muchangi Njue**, Reg No. B522/1201/2018. **Graduated.**
4. Participatory Evaluation of Spacing and Intercropping on Productivity of Bambara Groundnuts and Sorghum in Embu County. **Elizaphan Mboi Ombasa**. Reg. A512/1205/2018, University of Embu. **Expected year of graduation; 2024.**
5. Agro-Morphological, Nutritional And Anti-Nutritional Characterization Of Bambara Groundnut Landraces Under Varying Agro-Ecological Conditions In Embu County, Kenya. **Mercy Chelangat** A505/1419/2024. **Expected year of graduation; 2024.**
6. Enhancing The Yields And Quality Of Green Maize Through Management Of Fall Armyworm Using Climate Smart Technologies In Embu County, Kenya. **Catherine Kuthea Mumo**. A505/1354/2020. **Expected year of graduation; 2024.**
7. Effect of poultry manure and harvesting age on growth, oil yield and citral concentration of lemongrass in Embu county. Jackline Wangui Chege (MSc). **Expected year of graduation; 2025.**
8. Genetic and Physiological Diversity Of Coffee Leaf Rust Pathogen (*Hemileia Vastatrix* Berk And Br.) and the Pathogen Interaction With Selected Arabica Coffee Genotypes In Kenya. **Kanyua Stella Ignatius** Reg. A800/300/2021. Ongoing.
9. Germination, early seedling growth and diversity of East African Sandalwood in three selected provenances for domestication and conservation in Kenya. **David Muigai Ngumi** Reg. No. A800/155/2015, University of Embu. Ongoing.
10. Genetic Diversity and Proteomics of Wild Goose Berry (*Physalis Peruvian*) Accessions in Kenya. **Anthony Kiranga Njagi** Reg. No. B20/116/2014, University of Embu. **Ongoing.**

7. Conferences

1. **Muturi P.W**, Rubaihayo P and Mgonja M, 2018. Inheritance of Resistance in Sorghum to the Spotted Stem Borer, (Swinhoe) (Lepidoptera; Crambidae). Paper presented during Organisation for Women in Science for Developing Countries, regional conference – Africa on 5th – 7th September, 2018 at ICIPE, Kasarani, Duduvile campus, Nairobi, Kenya. Theme: Women In Science, Engineering And Technology For Sustainable Development.
2. **Muturi P.W**, 2017. Linking Agricultural African Universities with Stakeholders to Build Resilience among Small Holder Farmers: Need for Attention, Collaboration and Support. Paper presented during ASA 60th Annual Meeting on 16-19th November, 2017, Chicago IL, USA. Theme: Creating an Ecosystem to Support Research and Researchers in Institutions of Higher Education in Africa.
3. **Muturi P.W**, 2017. Feeding the forgotten and the underprivileged: The case of sorghum. Paper presented during African Studies Review Pipeline workshop for Emerging African Scholars in November 15th 2017, Chicago IL, USA.
4. **Muturi P.W**, Rubaihayo P and Mgonja M, 2016. Inheritance of resistant traits to the African stem borer in Sorghum. Paper presented at the Presented at RUFORUM Biennial conference held in Cape town, South Africa on 5-21 Oct. 2016.
5. **Muturi PW**, Mgonja M and Rubaihayo P, 2015. Morphological traits conditioning sorghum resistance to the African stem borer, *Busseola fusca*. Paper presented at the Entomological Society of America (ESA) conference in November 15 - 18, 2015 Minneapolis, Minnesota, USA.
6. **Muturi P.W**, 2016. Enhancing Sustainable Livelihoods and Building Resilience in Semi-Arid Lands through Cultivation of Elite Sorghum. Paper presented during ASA 59th Annual Meeting in Washington, DC, December 1-3.
7. **Muturi PW**, Mgonja M and Rubaihayo P, 2013. Resistance of sorghum to indigenous stem borers. Paper presented in the 11th African Crop Science Society conference held on 14 - 17 October 2013, Entebbe, Uganda
8. **Muturi PW**, Rubaihayo P, Kyamanywa S, Mgonja M and Sharma H C, 2012. Performance of Selected Grain Sorghum Genotypes for Improved Food Security and Livelihoods. Paper presented in the 3rd RUFORUM Biennial Conference, 24-28 September, Entebbe, Uganda
9. **Muturi P W**, Rubaihayo P, Kyamanywa S and Mgonja M, 2011. Sources of resistance to *Busseola fusca* and *Chilo partellus* in sorghum for improved food security and livelihoods. Paper presented at the 10th African Crop Science Society Conference held at Maputo, Mozambique on 10-13 October
10. **Muturi, P.W**. Mburu, M.W.K. Mwololo, J.K. Ateka, E. M. Njeru, R. W and Kiarie, N, 2011. Response of Sweet potato to whitefly resistance. Paper presented in aGRO 2011 University of Nairobi held at College of Agriculture and Veterinary Sciences on 26th-28th September
11. **Muturi P.W.**, Mburu M.W.K., Njeru R.W., Kiarie N., Ateka E.M., Muinga R.W., Kapinga R.E. and Lemaga B. “Screening for tolerance in selected sweetpotato germplasm to Sweetpotato Virus Disease in Kenya” Presented at the Regional Universities Forum Biennial Meeting, April 23rd - 27th, 2007, Mangochi, Malawi.
12. Mwololo J.K., **Muturi P.W.**, Mburu M.W.K., Njeru R.W., Kiarie N., Munyua J.K., Ateka E.M., Muinga R.W and Kapinga R.E. “Participatory evaluation of sweetpotato production in Kirinyaga and Kwale districts in Kenya” Presented at the Regional Universities Forum Biennial Meeting, April 23rd - 27th, 2007, Mangochi, Malawi.
13. **Muturi P.W.**, Mwololo J.M., Mburu M.W.K., Njeru R.W., Kiarie N., Munyua J.K., Ateka E.M., Muinga R.W. and Kapinga R.E. Strategies for maintaining sweetpotato nurseries free from insect vectors that spread Sweet potato Virus Disease. African Crop Science Society Conference proceedings 2007, Vol. 8 pp 2071-2074.

8. Seminars/Workshops

1. **Muturi P.W**, 2023. Seminar on utilization of herbs in Embu County on 17th February 2022. Presentation done to ASFAN Board Members Training.
2. **Muturi P.W**, 2022. Status of herbs and spices in Embu County. Presented to stakeholders on 20th July 2022, at University of Embu.
3. **Muturi P.W**, 2021. Guest Lecture on weeds with emphasis on international perspective. Presented via zoom to Swedish University of Agricultural Sciences (SLU) students, Uppsala on 1st December 2021.
4. **Muturi PW**. 2021. Seminar on utilization of herbs presented to farmers during Herbs and Essential Oils workshop on 21st July 2021 at University of Embu.
5. Ombasa EM, **Muturi PW**, Gichimu BM, Isaboke H.N and Gitari J.N, 2021. Adoption of Bambara groundnuts in Embu County. Paper presented on 3rd June during the School of Agriculture Research Findings Dissemination Meeting. Theme: Enhancing Farm Incomes through research.
6. **Muturi P.W**, 2020. Seminar lecture on beneficial effects of weeds with emphasis on international perspective. Presented via zoom to Swedish University of Agricultural Sciences (SLU) students, Uppsala on 20th Nov. 2020.
7. **Muturi P.W**, 2019. Seminar lecture on characteristic of weeds with emphasis on international perspective. Presented to SLU students in the Department of Agricultural Production, Uppsala on 27th November 2019 at BioC C213.
8. **Muturi P.W**, 2019. Seminar lecture on economic importance of weeds with emphasis on international perspective. Presented to SLU students in the Department of Agricultural Production, Uppsala on 11th December 2019 at BioC C213.
9. **Muturi P.W**, 2019. Seminar lecture on Beneficial effects of weeds with emphasis on international perspective. Presented to SLU students in the Department of Agricultural Production, Uppsala on 27th November 2019 at BioC C213
10. **Muturi P.W**, 2019. Role of women in food security: experience from Kenya. Presented to SLU students in the Department of Urban and Rural Development, SLU, Uppsala on 11th November 2019 at BioC C213
11. **Muturi P.W**, 2019. Enhancing Community Resilience to Climate Change through Participatory Evaluation and Selection of Bambara Groundnut in Semi-Arid Lands of Kenya. Paper presented during Department of Crop Production Research Seminar Series, at SLU on 12th December 2019 at F salen
12. **Phyllis Muturi**, ABCF Seminar Series, 2018. Entry seminar on genetic diversity of elite Bambara groundnut in Kenya using Single Nucleotide Polymorphism markers at Ndama lodge, IRLI, BecA Hub. June 15th, 2018.
13. **Phyllis Muturi**, ABCF Seminar Series, 2018. Exit seminar on Diversity Analysis and Genome Wide Association Studies of Seed Weight in Bambara Groundnut Using DArT Markers. Venue Info Centre, IRLI, BecA Hub. 17th August, 2018.

9. Publications

1. Mwithiga, G., Maina, S., **Muturi, P.**, & Gitari, J. 2024. Lemongrass (*Cymbopogon flexuosus*) growth rate, essential oil yield and composition as influenced by different soil conditioners under two watering regimes. *Heliyon*.
2. Chelangat, M., **Muturi, P.**, Gichimu, B., Gitari, J., & Mukono, S. 2023. Nutritional and Phytochemical Composition of Bambara Groundnut (*Vigna subterranea* [L.] Verdc) Landraces in Kenya. *International Journal of Agronomy*, 2023.
3. Mwithiga, G., Maina, S., **Muturi, P.**, Gitari, J., 2022. Lemongrass (*Cymbopogon flexuosus*) agronomic traits, oil yield and oil quality under different agro-ecological zones. Elsevier. <https://doi.org/10.1016/j.jafr.2022.100422>

4. Mwithiga, G., Maina, S., Gitari, J., **Muturi, P.**, 2022. Rosemary (*Rosmarinus officinalis* L.) growth rate, oil yield and oil quality under differing soil amendments, HELIYON, <https://doi.org/10.1016/j.heliyon.2022.e09277>.
5. Ombasa, E. M., **Muturi, P. W.**, Gichimu, B.M, Isaboke, H. N., Gitari, J. N. (2022). Factors Influencing Willingness to Adopt Recommended Bambara groundnut (*Vigna subterranea* L. Verdc) Agronomic Practices Among Smallholder Farmers in Semi-Arid Lands of Embu County, Kenya. *Journal of Experimental Biology and Agricultural Sciences*, August - 2022; Volume – 10(4) page 805 – 811
6. Njue M, **Muturi P**, Nyaga J, Jonsson M. 2021. Influence of drought on interactions between *Rhopalosiphum padi* and ground dwelling predators –A mesocosm study. *J Appl Entomol.* 2021;00:1–5. <https://doi.org/10.1111/jen.12904>
7. **Muturi, P.W.**, Mgonja M. and Rubaihayo P., 2021. Genetics of dual resistance to African stem borer, *Busseola fusca* and spotted stem borer, *Chilo partellus* in sorghum. *Int J Trop Insect Sci.* <https://doi.org/10.1007/s42690-020-00411-5>
8. **Phyllis Muturi**, Mary Mgonja, Patrick Rubaihayo and James Mwololo, 2021. QTL Mapping of Traits Associated with Dual Resistance to the African stem borer (*Busseola fusca*) and Spotted Stem Borer (*Chilo partellus*) in Sorghum (*Sorghum bicolor*). *International Journal of Genomics*. DOI <https://doi.org/10.1155/2021/7016712>
9. Lydia G. Mugao, Bernard M. Gichimu, **Phyllis W. Muturi** and Simon T. Mukono 2020. Characterization of the Volatile Components of Essential Oils of Selected Plants in Kenya. *Hindawi - Biochemistry Research International*, Volume 2020, Article ID 8861798, <https://doi.org/10.1155/2020/8861798>
10. Lydia G. Mugao, **Phyllis W. Muturi**, Bernard M. Gichimu and Ezekiel K. Njoroge, 2020. In Vitro Control of *Phytophthora infestans* and *Alternaria solani* Using Crude Extracts and Essential Oils from Selected Plants. *International Journal of Agronomy*, Volume 2020 |Article ID 8845692. <https://doi.org/10.1155/2020/8845692>
11. Marline Hanny Owino, Bernard Mukiri Gichimu and **Phyllis Wambui Muturi**, 2020. Agro-morphological characterization of horned melon (*Cucumis metuliferus*) accessions from selected agro-ecological zones in Kenya. *Australian Journal of Crop Science*. *AJCS* 14 (09): 1487-1496. doi: 10.21475/ajcs.20.14.09.p2642
12. **Muturi P.W.**, Mgonja M. and Rubaihayo, P. 2019. Gene action conditioning resistance traits to spotted stem borer, *Chilo partellus*, in grain sorghum. *International Journal of Tropical Insect Science*. DOI: <https://doi.org/10.1007/s42690-019-00020-x>
13. **Muturi P.W.** Mgonja M. and P. Rubaihayo, 2019. Inheritance of Resistance Traits to the African Stem Borer in Grain Sorghum. *African Crop Science Journal*. doi: <https://dx.doi.org/10.4314/acsj.v27i3.5>
14. **Muturi, P.W.** Mgonja M. and Rubaihayo P, 2014. Identification of new sorghum genotypes resistant to the African and spotted Stem borers. *International Journal of Tropical Insect Science*. doi:10.1017/S1742758414000459
15. **Muturi PW**, Rubaihayo P, Mgonja M, Kyamanywa S, Sharma HC and Hash CT, 2012. Novel source of sorghum tolerance to the African stem borer, *Busseola fusca*. *African Journal of Plant Science* Vol. 6(11), pp. 295-302. DOI: 10.5897/AJPS12.051
16. **Muturi P.W.**, Rubaihayo P, Mgonja M, Kyamanywa S, Kibuka J and Sharma HC, 2012. New sources of resistance to spotted stem borer, *Chilo partellus* in sorghum. *Int. J. Agr. & Agri. R.* Vol. 2, No. 8, p. 18-28
17. Mwololo J.K., Mburu M.K.W., **Muturi P.W.**, 2012. Performance of sweet potato varieties across environments in Kenya. *Int. J. Agr. & Agri. R.* Vol. 2, No. 10, p. 1-11
18. **Muturi, P.W.**, Mwololo, J.K., Munyiri, S.W., Rubaihayo P., Munyua, J.K., Mgonja M., Manyasa E. and Kiarie N, 2010. A perspective on proteomics: Current applications, challenges and potential uses. *Agriculture and Biology Journal of North America*, Vol. 1, Issue 5: 916-918

19. J.K. Mwololo, **P.W. Muturi**, S.W. Munyiri and J.K. Munyua, 2010. An overview of advancement in bioinformatics and its application in functional genomics. *Journal of Animal and Plant Sciences*. Vol. 6, Issue 3:645-652
20. J.K. Mwololo, H.G Karaya, **P.W. Muturi**, S.W. Munyiri and J.K. Munyua, 2010. Utilization of proteins and nucleic acids in the study of gene function: A comparative review. *Journal of Applied Biosciences*, 30: 1861-186
21. J. K. Mwololo, **P. W. Muturi**, M. W. K. Mburu, R.W. Njeru, N. Kiarie, J. K.Munyua E. M. Ateka, R. W. Muinga and R. E. Kapinga, 2009. Additive main effects and multiplicative interaction analysis of genotype x environmental interaction among sweet potato genotypes. *Journal of Animal & Plant Sciences*. Vol. 2, Issue 3: 148 - 155.

10. Research Grants and Collaborations

- **Co-Principal Investigator** for a project on Characterization and sustainable management of root knot nematodes affecting tomatoes in Embu County, Kenya. Project funded by **Ecospray, UK**
- **Co-Principal Investigator** for a project on Evaluation of efficacy of selected organic pesticides on *Tuta absoluta* in tomato under green house and field conditions. Project funded by **Ecospray, UK**
- **Principal Investigator** in a multidisciplinary and multi-institutional project titled 'Integration of Smart Sustainable Integrated Pest Management Strategies from Selected Local Plants for Improved Food Security among Small Holder Farmers in Semi-Arid Lands of Eastern Kenya' Project funded by **Organization for Women in Science for the Developing World (OWSD), a UNESCO programme**, hosted by The World Academy of Sciences (TWAS).
- **Principal Investigator** in a multidisciplinary and multi-institutional project titled 'Enhancing community resilience and adaptation to climate change through participatory evaluation and selection of elite Bambara groundnut genotypes for improved food and nutrition security in semi-arid lands of Eastern Kenya funded by **University of Embu Vice-Chancellor's Research Fund**.
- **Co-principal investigator** in a multidisciplinary and multi-institutional project entitled 'Enhancing The Industrial Production of Essential Oils In Kenya For Improved Livelihoods' funded by **National Research Fund, Kenya**.
- **Principal investigator** for Dryland Cereals Research of the **CGIAR Research Program**.
- **Carnegie Fellow** with **Carnegie Corporation of New York, USA**.

11. Professional Recognition (to mention just afew)

- Collaboration with Ecospray Company, UK
- The world Academy of science (TWAS) fellowship proposal evaluations
- International Journal of Pest Management
- Plant Genetic Resources International Journal
- International Journal Reviewer, Journal of Pest Science
- Reviewer, Springer Nature
- Journal Reviewer for African Journal of Horticultural Sciences (AJHS)
- External Examiner for MSc. and PhD Thesis for University of Nairobi, Kenya; Chuka University, Kenya; and Makerere University, Uganda.
- Internal examiner for MSc. and PhD Thesis for University of Embu.

12. Non Research Awards/Recognition

- Lions Primary School, Class of 2022, Committee of Excellence Member
- The world Academy of Science (TWAS) Young Affiliate Award, 2021
- Recognition for outstanding contribution towards the University's attainment of Composite Score of 1.7272 in the best performing state corporation in the 2021/2022 financial year performance contract
- Letter of Commendation for excellent performance during FY 2020/2021 performance Management cycle.
- Recognition for outstanding contribution towards the University's attainment of Composite Score of 2.124 in the excellent category in the 2019/2020 financial year performance contract
- University of Embu Commendation for good performance during 2018/2019 performance management cycle.
- Editor for the 6th International Conference for Women in Science Without Borders, 2021
- AWARD winner, 2013.

13. Invitations

- Invitation by **Embu County Gender Based Violence Strategy Development** fora, 2020
- Invited to serve as a **member of distinguished panel of agriculture leaders** from the U.S. and Africa and helped lead a conversation on how agriculture and food systems can achieve greater productivity and sustainability to help feed the world at World Food Prize in Des Moines, Iowa in 2015
- Invited to present and Chair a session during the **Organisation for Women in Science for Development (OWSD) - Africa Regional Conference**, on 5th September 2018 at ICIPE, Kasarani-Duduville Campus, Nairobi, Kenya
- Invited as a **resource person** to a field day at International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) – Kiboko Field station, Makueni County to participate in educating farmers on sorghum value chain on 9th September 2016.

14. Appointments to National Technical Committees

- 2020- to date: **Member of Biotechnology Technical Committee** (KEBS/TC 030), Kenya Bureau of standards.
- **Resource person** for **Kenya National Qualifications Authority (KNQA)** in 2019-2021.

15. Appointment to University Committees (selected few among many)

- Member, Endowment Fund Bursary Presentation Planning Committee
- Member, Customer Relations and Complaints Resolution Committee
- Member, UESA Electoral Commission
- Member, Graduation Planning Committee
- Member, Pillar 3: Business Continuity
- Chairman, Gender Mainstreaming Committee
- Member, Prevention of Bribery and Corruption Committee
- Member, KEBS and UoEM Joint Implementation Committee
- Member, Students Performance in University Examinations
- Member, Mentorship Committee
- Member, Peer Counsellors Training Organizing Committee
- Member, Chancellor's Award Committee
- Member, Chaplaincy Committee
- Member, Cultural Event Organising Committee

16. Membership to Professional Bodies

- Women in Science for the Developing World, Kenya Chapter (Membership No. 037.
- African Crop Science Association
- African Plant Breeders Association

17. Referees

1. Dr. Samuel Ndirangu
Dean, School of Agriculture
University of Embu
P.O. Box 6 – 60100 Embu
2. Dr. Felister Nzuve
Department of Crop Science/Crop Protection
University of Nairobi
P.O. Box 29053- 00625, Nairobi
3. Prof. John Kimenju
Department of Crop Science/Crop Protection
University of Nairobi
P.O. Box 29053- 00625, Nairobi