



RESEARCHER ID:

SCOPUS ID:

ORCHID:

Position:

1. PERSONAL INFORMATION

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| 1.1. NAME: | Michael M. Okeyo |
| 1.2. ADDRESS: | P. O. Box 87 – 90137, KIBWEZI |
| 1.3. PHONE: | 0722-233 644 |
| 1.4. EMAIL ADDRESS: | mokeyo@kefri.org mikemairura@gmail.com |
| 1.5. NATIONALITY: | Kenyan |
| 1.6. GENDER: | Male |

2. QUALIFICATIONS

2.1. Academic Qualifications:

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|------|--------------|---|
| 2016 | date: | Doctor of Philosophy student in Natural Resource Management student at Egerton University (Final Year) |
| 2017 | 2005 to 2009 | Master of Philosophy degree in Seed Science, Moi University. |
| 2018 | 1999 to 2003 | Bachelor of Science Degree in Forestry (First Class Honours), Moi University, Eldoret. |
| 2019 | 1985 to 1988 | Diploma in Forestry from Egerton University. |

2.2. Key Competencies

2.3. Other Courses

- a. **2017/18** Trained internal auditor of the ISO 2015 QMS and EMS by a **Consultant**
EIA lead expert No. 7470 by **CETRAD / NEMA**
- b. **2005** Certificate in Farmers Field Schools (FFS) by **FAO / KEFRI,**
- c. **2004** Three months post graduate diploma in Bamboo Technology, at China National Bamboo Research Centre,

3. EMPLOYMENT HISTORY

- a. 1988 to 2003: Worked as a forester seed at Londiani, Gede, Kitale and Kakamega, In-charge of Seed Collection activities/ Centres,
- b. 2004 to 2007: worked at Marigat Research Sub-Centre as the Project Coordinator of the FAO / GOK funded Prosopis Control and management Project'
- c. 2008 to 2009: Assistant Research Officer in Silviculture, Seed Technology and Bamboo activities at Londiani Regional Research Centre,
- d. 2009 to 2013: Research Officer in Tree Improvement, Seed Technology and Bamboo activities at Gede Regional Research Centre,
- e. 2013 to 2019: Research Officer in Silviculture, Seed Technology and Bamboo activities at Gede Regional Research Centre,
- f. 2019 to Date: Senior Research Scientist Silviculture and Seed Science and Assistant Regional Director at Kibwezi Sub-regional Research Centre.

4. ADMINSTRATIVE RESPONSIBILITY

- a. Oct. 2019 to date: Assistant Regional Director - Kibwezi
- b. 2011 to 2010: KCDP Project Coordinator, Coast Eco-region research Programme,
- c. 2004 to 2007: Project Coordinator of the FAO and GOK funded Prosopis Project, Marigat,

5. PUBLICATIONS

5.1. Journal papers

- a. Okeyo, M.M., G.O. Obwoyere, D.L. Makanji, J.W. Njuguna, J. Atieno (2020). Promotion of *Terminalia brownii* in Reforestation by Development of Appropriate Dormancy Breaking and Germination Methods in Drylands; Kenya. In Press, Journal Pre-proof, Available online 11 June 2020.
- b. Okeyo, M.M., G.O. Obwoyere, D.L. Makanji, J.W. Njuguna and J.A. Omondi 2019. Fungal diseases attacking floral phenology of *Terminalia brownii* in drylands, Kenya. *Poplar* 2019, 203, 5-11, on-line journal, UDC: 582.776.7:632.4(676.2).
- c. Bala, P., Giathi, G., Oeba V., Omondi, F. S., Luvanda, A. and **Okeyo, M. M.** (2017). Effect of seasonality, graft type and scion characteristics on propagation of *Vitex payos* in the drylands of Kenya. *Journal of Horticulture and Forestry*. Vol. 9(6), pp. 49-58.
- d. **Okeyo, M. M., Nicholus, J., Luvanda A., Mwamburi,A., Ndufa, J. K., Bor,N. and Munyao, D.** (2016). Extension Approaches in the Promotion of *Melia volkensii* in Lower Eastern, Kenya, 2016. *International Journal of Applied and Pure Science and Agriculture* June, 2016. ISSN. Online – 2394-5532.
- e. Musingo T. E. M.; L. Wekesa; C. Wekesa ; N. Leley; M. Ntabo; A. Eshitera; M. Karangji; L. Cheruiyot; P. Manyala; **M. M. Okeyo**; M. Sheikh; K. Kihara; M. Muchiri; P. Ongugo; A. Kala

and B. Owuor (2016). Capability Map for Growing High Value Tree Species in the Coast Region of Kenya

- f. Master of Philosophy Thesis on the “A Study on the Germination and Dormancy of the African Satinwood Seed [*Zanthoxylum gilletii* (De Wild) Waterman]” September 2009.
- g. **Okeyo, M.M.**, J.R. Okalebo, E. K. Koech, C.O. Othieno and K.W. Ndung’u (2003). Residual Effect of Minjingu Phosphate Rock and Short Fallow Biomass Incorporation on Maize Yields in Bumala, Kenya. A Paper presented at the 6th African Crop Science Conference at Hilton Hotel, Nairobi, Kenya.

5.2. Books

None

5.3. Book Chapter

- a. Chapter on “Investigation on the Germination of the African Satinwood Seed (*Zanthoxylum gilletii*)” in Innovations as Key to the Green Revolution in Africa - Volume II, 2011
- b. Chapters on: “Natural Forest Restoration Options” and “The Main High Value Tree Species for Restoration of Degraded Mau Forests Complex” in the Restoration Handbook for Moist Forests in Kenya Handbook April 2010.
- c. Chapter on *Zanthoxylum gilletii* in **PROTA 7 (1): Plant Resources of Tropical Africa – Timbers - Volume I**. Leiden, Netherlands, 2008.

5.4. Technical Notes /Protocols/Guidelines

- a. *Terminalia brownii* propagation guidelines (draft),
- b. *Gmelina arborea* grafting and propagation guidelines (draft).

5.5. Policy Briefs

None

6. RESEARCH

6.1. Completed

- a. *Terminalia brownii* seed germination studies,
- b. *Terminalia brownii* socio-economic studies.

6.2. Ongoing research

- a. PhD Studies on insects and disease affecting seed quality of *Terminalia brownii*,
- b. Storability and germination studies of *Melia volkensii* stored as seed or nuts,
- c. Propagation of low land bamboo species through branches.
- d. On-farm growth studies of *Melia volkensii* in Makueni County.

6.3. Mentorship and supervision

Supervised a number of students on attachment from various universities while at Kitui and Kibwezi, many of them finished their BSc and diplomas successfully.

New Scientist (Rufo G. Jillo and two foresters’) at Kibwezi Sub-regional Centre

7. INNOVATIONS AND PATENTS (Intellectual Property)

None

8. CONFERENCES/SEMINARS/WORKSHOPS

8.1. Presentation of Papers at Academic and Professional Conferences

- a. Germination performance of seed supplied by Kenya Forestry Seed Centre - June 2012; presented at the IUFRO Conference in 2012
- b. Germination and Dormancy of *Diospyros scabra* (Black ebony) Seed - June 2012; presented at the IUFRO Conference in 2012

8.2. Participation in Workshops/Conferences

8.3. Convening/Coordinating Conferences

9. PROFESSIONAL ENGAGEMENT

9.1. Training

9.2. Consultancies

9.3. Collaboration with external organizations

10. EXTERNAL AND INTERNAL RESEARCH GRANTS

Successful grants won

- a. 2016 to 2021 National Research Fund Grant (NRF), Principal Investigator on ‘*The Promotion of Terminalia brownii Propagation for Agroforestry, Livelihood Improvement and Resilience to Climate Change in the Drylands of Kenya.*’
- b. 2020 to 2022 Kenya Climate Smart Agriculture Project (KCSAP), Co-Principal Investigator on ‘*Integrated Land and Water Management Strategies for Restoration and Protection of Water Resources in Agro-Pastoral Systems -Kenya (IMWaR).*’

Participated in two other grants which were not successful

11. LOCAL, REGIONAL & INTERNATIONAL APPOINTMENTS

11.1. Local

11.2. Regional

11.3. International

12. AWARDS AND RECOGNITION

13. CONTRIBUTION TO KEFRIs ADVANCEMENT

14. MEMBERSHIP TO PROFESSIONAL BODIES

- a. **2011/2010 to date:** Member-Forest Society of Kenya (**FSK**)
- b. **2015/2016 to date:** Member-Environmental Institute of Kenya (**EIK**)

15. REFEREES

- a. Mr. Joel Laigong, Lecturer Moi University and now University of Eldoret, P.O. Box 1125 – 30100, **ELDORET, KENYA**,
Mobile: 0729961419, Email: jlaigong05@yahoo.com
- b. Dr. Dickson L. Makanji Lecturer Egerton University; P. O. Box 536 – 20115; **EGERTON**
Mobile: 0702115860; **Email:** Imakanji@yahoo.co.uk
- c. Dr. James K. Ndufa Chief Research Scientist KEFRI, P. O. Box 20412-00200; **NAIROBI**
Mobile 0722 983 238, **Email:** jkndufa@yahoo.com