



RESEARCHER ID:

SCOPUS ID

ORCHID:

Position: Principal Research Officer (Genetics and Tree Breeding)

1. PERSONAL INFORMATION

- 1.1. NAME: Jason G Kariuki
- 1.2. ADDRESS: Box 20412-Nairobi-00200
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- 1.4. EMAIL ADDRESS: jkariuki@kefri.org or kariukijason@yahoo.com
- 1.5. NATIONALITY: Kenyan
- 1.6. GENDER: Male

2. QUALIFICATIONS

2.1. Academic Qualifications:

- 1992-1994: MSc Forestry. The Australian National University
1991-1991: PostGrad Diploma. The Australian National University
1984-1987: BSc Forestry. Moi University

2.2. Key Competencies

2.3. Other Courses

- Training in Forest and farm forestry extension methods June –August, 2007, Okinawa, Japan Agroforestry training course, 9 - 20 January 1995, ICRAF Headquarters, Nairobi.
- Modular Course on Management and teamwork building: Nov., Dec. 1996, Feb., March 1997. KEFRI HQs
- Environmental Impact assessment and Audit Course. Kenya Institute of Administration. May 2010
- Breeding Methods – July-August 2012. Forest Tree Breeding Centre, Japan

3. EMPLOYMENT HISTORY

- 2011 - Present: Principal Research Scientist
- 2003-2011: Research Officer, Kenya Forestry Research Institute, Nairobi
- 1994 - 2003: Research Officer II, Kenya Forestry Research Institute: Promotion of Sustainable Forest Management (PSFM) project.
- 1991-1994: On Post Graduate training - The Australian National University
- 1989 - 1991: Officer-In Charge, Turbo National Forestry Research Centre, Turbo
- 1987 - 1988: Assistant Research Officer, Silviculture, Kenya Forestry Research Institute

4. ADMINISTRATIVE RESPONSIBILITY

- 2012-2017: Assistant Project Manager, Project on development of drought tolerant trees in the drylands of Kenya
- 1989 - 1991: Officer-In Charge, Turbo National Forestry Research Centre, Turbo

5. PUBLICATIONS

1. So Hanaoka, Mineko Ohira, Michinari Matsushita and Jason Kariuki (2016). Optimizing the size of root cutting in *Melia volkensii* for improving clonal propagation and production of quality stock. *African Journal of Biotechnology* Vol 15(29) pp. 1551-1558. July 2016
2. So Hanaoka, Norio Nakawa, Norihisa Okubo, Stephen Omondi and **Jason Kariuki** (2014). Seed Pre-treatment methods for Improving germination of *Acacia tortilis*. *African Journal of Biotechnology* Vol 13(50) pp. 4557-4561. December 2014.
3. Muturi GM, Kariuki JG and Omondi SF: (2018). KEFRI's drought tolerant trees for adaptation to climate change and enhancing biomass supply in Kenya: Paper **presented at the** International Workshop: Sustainable Rural Bioenergy Solutions in Africa to be held in ICRAF, Nairobi on 19 January 2018
4. **J. G. Kariuki**, G.M Muturi and J. M. Machua (2014). Reforestation for rehabilitation of degraded areas surrounding Kakuma Refugee Camp. In *Rehabilitation of degraded areas surrounding Kakuma Refugee Camp* (J. G. Kariuki, G.M Muturi and J. M. Machua, B. Kamondo, P. Tuwei, J. Wanjiku and D. Ochieng (Eds): KEFRI/JOFCATEchnical Report No. 2.
5. G.M Muturi, **J. G. Kariuki and** J. M. Machua (2014). Prosopis Management Strategies in Turkana. In *Rehabilitation of degraded areas surrounding Kakuma Refugee Camp* (J. G. Kariuki, G.M Muturi and J. M. Machua, B. Kamondo, P. Tuwei, J. Wanjiku and D. Ochieng (Eds): KEFRI/JOFCATEchnical Report No. 2.
6. Bernard Kamondo, Osore Chahilu, Gitehi Giathi and Jason Kariuki. Collection, Handling and Germination of *Osyris lanceolata* Seeds: Guidelines for Farmers and Extension Agents. KEFRI April 2012.
7. G. M. Muturi, **J. G. Kariuki** and J. M. Machua (2014). Rehabilitation of Degraded Areas Surrounding Kakuma Refugee Camp (KEFRI/JOFCA Project Technical Report No. 2. KEFRI/JOFCA. (In press)

8. **Kariuki, J. G.** (2013). Polycross progeny trial of *Pinus patula* at Muguga, Kenya: Results and their Implications on the Genetic improvement of the species in Kenya. Paper presented at the IUFRO Conference, ICRAF Nairobi Kenya.
9. Gabriel M. Muturi, Jason G. **Kariuki**, Lourens Poorter and Godefridus M. J. Mohren. (2012). Allometric equations for estimating biomass in naturally established *Prosopis* stands in Kenya *Journal of Horticulture and Forestry* Vol. 4(2), pp. 69-77, March 2012
10. Bernard Kamondo, Osore Chahilu, Giathi Gitehi and **Jason Kariuki**. (2012). Collection, handling and Germination of *Osyris lanceolata* Seeds. Guidelines for Famers and Extension Agents. KENYA FORESTRY RESEARCH INSTITUTE
11. Githiomi JK and **Kariuki JG** (2010) wood basic density of *Eucalyptus grandis* from plantations in central rift valley, kenya: variation with age, height level and between sapwood and heartwood
12. **Kariuki J. G**, Machua J. M, Luvanda A. M. and Kigomo J. N. (2008). Baseline Survey of Woodland Utilization and Degradation around Kakuma Refugee Camp. KEFR/JOFCA Project Technical Report No 1
13. Muturi, G., **Kariuki, J.** Ndungu, S.M, Waweru, S.G. and Changwony, M. 2011. Technical guidelines for forest, Nursery and *Prosopis* Management in Turkana Kenya. KEFRI/JOFCA technical report.
14. Oeba V. O., M.N Muchiri and **J.G Kariuki.**, (2009). Growth performance of *Eucalyptus* hybrid clones and four common landraces in Kenya. *Journal of East African Natural Resources Management*. 3: 219-236.
15. Kagombe, J. K., Luvanda A. M. and **Kariuki J. G.** Socio-economic baseline survey and analysis of natural resource management options in Mukogondo Landscape, Laikipia District
16. Muturi G. A., Mulatya J., Ego W., Maina, N. I., Nyariki D., Muthoka P., **Kariuki J. G.**, Esilaba A. O. Cheriuyot H. K. (2004): Benchmark Characterization: Kenya Country report. Desert Margins programme (DMP) UNEP/(RF) 28 pp
17. D. K. Langat and **J. G. Kariuki** (2004): Variations between heartwood proportion and basic density between provenances of *eucalyptus grandis* in Kenya. *Journal of Tropical Forest Science* 16 (2) pp 179-186 (RF)
18. Muturi G. A., Mulatya J., Ego W., Maina, N. I., Nyariki D., Muthoka P., **Kariuki J. G.**, Esilaba A. O. Cheriuyot H. K. (2004): Benchmark Characterization: Kenya Country report. Desert Margins programme (DMP) (RF) 28 pp
19. James E. Chiria and **J. G. Kariuki:** (2002) Improvement of Biometrics services to Scientists in KEFRI. Report and synthesis of a survey carried out at the Institute Research Centres (Kenya Forestry Research Institute and Commonwealth Secretariat. 22 pp

20. Muok B. O and **Kariuki J.**(2001). Socio-economic survey of *Tamarindus indica* and *Dialium orientale* in Kenya. KEFRI/IPGRI.
21. Production-to-Consumption System: A Case study of the Bamboo Sector in Kenya. P. O. Ongugo, G. O. Sigu, **J. G. Kariuki**, A. M. Luvanda and B. N. Kigomo. KEFRI/INBAR Report. 2000. 53pp
22. **Kariuki J. G.** and. Omenda, T. O: Impacts of climate change on forests in Kenya: Paper presented at National workshop on Impacts of climate change on Socio-economic development in Kenya. Nairobi, Kenya December 4-5 1998.
23. **Kariuki, J. G.** (1998). Provenance and Family-within-provenance variation in *Pinus patula*, *Pinus patula* subspecies *tecunumanii* and *Pinus oocarpa* planted at Turbo, Kenya. ***Forest Ecology and Management*** 107:127-133. (RF)
24. **Kariuki, J. G.** and Omenda T. O. (1998). Potential effects of Climate Change on Forests in Kenya. US Country Studies Programme and Ministry of Research, Technical Training and Technology. (RF)
25. **Kariuki, J. G.** and T. O. Omenda (1998). Impacts of climate change on forests in Kenya: In **J. G. Kariuki, T. O. Omenda and P. M. Mbuti** (Editors): Impacts of climate change on socio-economic development in Kenya. Kenya Country Report. Kenya Country Studies on climate change project, Ministry of Research, Science and Technology, Nairobi.
26. **Kariuki, J. G.** and Chagala, E. M. (1996). Gains obtained from genetic improvement of *Cupressus lusitanica* Miller in Kenya: a comparative trial of seed orchard and other sources of seed at different stages of improvement. *In* Tree Improvement for Sustainable Tropical Forestry, Dieters, M. J., Matheson, A. C., Nickles, D. G., Harwood, C. E., and Walker, S. M. (eds.). pp 409-411. ***Proc. QFRI-IUFRO Conference, Caloundra, Queensland Australia***, 27 October-1 November 1996 (Queensland Forestry Research Institute, Gympie). (RF)
27. Chagala, E. M. and **Kariuki, J. G.** (1996). Growth and response to spacing of ten open-pollinated progenies of *Cupressus lusitanica* at Muguga, Kenya. *In* Tree Improvement for Sustainable Tropical Forestry, Dieters, M. J., Matheson, A. C., Nickles, D. G., Harwood, C. E., and Walker, S. M. (eds.). pp 409-411. *Proc. QFRI-IUFRO Conference, Caloundra, Queensland Australia*, 27 October-1 November 1996 (Queensland Forestry Research Institute, Gympie). (RF)
28. **Kariuki, J. G.** (1994). Genetic variation in early growth and in resistance to water stress in *Grevillea robusta*. MSc Thesis, The Australian National University, Canberra.
29. **Kariuki, J. G.** (1989). Interim Results of a provenance trial of *Liquidambar styraciflua* at Turbo, Kenya. KEFRI Research Note No. 5.

(Note: Highlighted papers are in refereed journals)

6. RESEARCH

6.1. Completed

1. Research and development in support of commercial forestry in Kenya, Funded by Gatsby Africa (KEFRI/GATSBY)
2. Development of Drought Tolerant Trees for Adaptation to Climate Change in Drylands of Kenya (2012-2017) (KEFRI/JICA)
3. Project on sustainable forest Management on Kenya (KEFRI/GTZ)
4. Rehabilitation of Degraded Areas Surrounding Kakuma Refugee Camp (KEFRI/JOFCA)
5. FORREMS (Forest Rangeland Environmental Management Strengthening) Project: KEFRI/USAID 2006
6. Desert Margins Project: (DMP) UNEP/GEF

6.2. Ongoing research

- CADEP Project – KEFRI/JICA
- Tree Improvement of various tree species

6.3. Mentorship and supervision

7. INNOVATIONS AND PATENTS (Intellectual Property)

8. CONFERENCES/SEMINARS/WORKSHOPS

8.1. Presentation of Papers at Academic and Professional Conferences

8.2. Participation in Workshops/Conferences

8.3. Convening/Coordinating Conferences

9. PROFESSIONAL ENGAGEMENT

9.1. Training

9.2. Consultancies

- Feasibility study for establishment of biomass tree plantations by communities within community in limestone mining areas of Mutomo (Kanziku and Mathima) for Lafarge (EA) Ltd.
- Feasibility of Establishing Commercial Plantations for Timber, Woodfuel, Biofuel, and Carbon Sequestration and formulation of a Forest Management Plan (FMP) for 15,000 hectares of tree plantations in Musimba Farm, Kulalu in Galana (for Musimba Investments Ltd).

9.3. Collaboration with external organizations

10. EXTERNAL AND INTERNAL RESEARCH GRANTS

10.1. Project on development of drought tolerant trees in the drylands of Kenya 2012-2017:

10.2. Capacity Development Project Kenya 2017-present

11. LOCAL, REGIONAL & INTERNATIONAL APPOINTMENTS

11.1. Local

11.2. Regional

11.3. International

12. AWARDS AND RECOGNITION

13. CONTRIBUTION TO KEFRIs ADVANCEMENT

13.1. Breeding of *Melia volkensii*

13.2. Breeding of *Acacia tortilis*

14. MEMBERSHIP TO PROFESSIONAL BODIES

14.1. Member, Environment Institute of Kenya

15. REFEREES