RESEARCHER ID:

SCOPUS ID:

ORCID: https://orcid.org/0000-0002-3321-1889

Position: Research Scientist (Molecular Science)

1. PERSONAL INFORMATION

1.1. NAME Susan Wanjiku Karani

1.2. ADDRESS P.O Box 20412-00200, Nairobi

1.3. PHONE 0790968602

1.4. EMAIL ADDRESS skarani@kefri.org, suzieshiku@gmail.com, susanwanjiku850@yahoo.com.

1.5. NATIONALITY Kenyan

1.6. GENDER Female

2. QUALIFICATIONS

2.1. Academic Qualifications

2015-Present	Masters of Science in Biotechnology Kenyatta University, Nairobi
2009-2013	Bachelor of Technology, Industrial Microbiology and Biotechnology, The Technical University of Mombasa

2.2. Key Competencies

- Identification of tree diseases.
- Data collection and analysis.
- Development of research concepts and proposals.
- DNA extraction, PCR and Gel electrophoresis.
- DNA sequence editing and analysis.
- Plant Tissue Culture

- Other Courses

3. EMPLOYMENT HISTORY

July 4th – Present	Research Scientist (Molecular science)
March 2019 - March 2020	Assistant research scientist. (Contractual intern) Kenya Forestry Research Institute, Nairobi.
Nov 2017 – Feb 2019	Assistant Research scientist. (Intern) Kenya Forestry Research Institute, Nairobi
Oct 2016 – Nov 2017	MSc. Research fellow World Agroforestry Centre, Nairobi (ICRAF)
Jan 2015 – Jun 2015	Intern Kenya Forestry Research Institute, Nairobi
Sep 2013 – Dec 2013	Intern Government Chemist, Mombasa
Jan 2012 – April 2012	Attaché Kenya Medical Research Institute

4. ADMINSTRATIVE RESPONSIBILITY

5. PUBLICATIONS

5.1. Journal papers

Karani S., Njuguna J., Muchugi A., Runo S. Machua J and Mwaniki P. (2022). Molecular identification of fungi causing canker and dieback diseases on *Vangueria infausta* (Burch) subsp. rotundata (Robyns) and *Berchemia discolor* (Klotzsch) Hemsl in lower Eastern Kenya.

6. RESEARCH

6.1. Completed

Characterization of fungi associated with *Vangueria rotundata* and *Berchemia Discolor* in Lower Eastern Kenya using molecular techniques (Masters Research work)

6.2. Ongoing research

- Clonal production of *Melia volkensii* F2 family through tissue culture.
- Propagation of 2 Bamboo species through tissue culture.
- To develop propagation protocols for one bamboo species through tissue culture.
- To determine taxonomic classification and genetic diversity of dodder species in Kenya through morphological and molecular characterization.
- To determine the genetic diversity and population structure of *Oldeania alpina.*

- To determine genetic diversity and population structure of *Tamarindus indica* in Kenya.
- To determine genetic characterization of F2 Melia candidate plus trees.

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 ENGAGMENT

9.1. Training

9.2. Consultancies

9.3. Collaboration with external organizations

10. EXTERNAL AND INTERNAL RESEARCH GRANTS

Include research grants won

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

1. Forestry Society of Kenya

15. REFEREES

Dr. Jane Wangu Njuguna,
Senior Deputy Director, KEFRI.
P.O BOX 20412-00200
Nairobi
Mobile no: 0722 812341

Joseph Machua,
Chief Research Scientist, KEFRI.
P.O BOX 20412-00200
Nairobi.
Mobile no: 0722 831071

Zakayo Kinyanjui,
World Agroforestry Center,
P.O BOX 30677-00100,
Nairobi.
Mobile no: 0721769420

Dr Stephen Runo
Department of Microbiology, Biochemistry and Biotechnology
Kenya University
P.O BOX 43844, 00100 GPO,
NAIROBI.
smruno@gmail.com
Mobile no: 0727346496