

CURRICULUM VITAE

of

Senesie Swaray, PhD

Genetics and Breeding

Associate Lecturer at Eastern Technical University of Sierra Leone (ETU-SL)

A. PERSONAL PARTICULARS

- I. **NAME:** Senesie Swaray
- II. **PLACE OF BIRTH:** Bonthe Government Hospital, Sierra Leone
- III. **DATE OF BIRTH:** 4th December 1974
- IV. **NAME OF MOTHER AND ORIGIN:** Mrs Esther Kadiatu Swaray; Bonthe District, Sittia Chiefdom, Sierra Leone
- V. **NAME OF FATHER AND ORIGIN:** Mr. Alpha Swaray; Pujehun District, Kpanga
- VI. **LOCAL GOVERNMENT AREA AND ORIGIN:** Bonthe Municipality
- VII. **MARITAL STATUS:** Married
- VIII. **NUMBER AND AGE OF CHILDREN:** Three: 19; 10 and 06 years
- IX. **CURRENT CONTACT ADDRESS:** Tree Crop Unit, Sierra Leone Agricultural Research Institute (SLARI)/Kenema Forestry and Tree Crop Research Centre (KF/TCRC).
- X. **PERMANENT CONTACT ADDRESS:** No. 1, Piemary Street, Bonthe Island, Sierra Leone, West Africa
- XI. **TELEPHONE NUMBERS:** 23276-972-305
- XII. **EMAIL:** senesieswaray74@gmail.com / senesieswaray@yahoo.co.uk

B. EDUCATIONAL BACKGROUND

I. LEARNING INSTITUTIONS ATTENDED WITH DATES:

1. Tertiary Education

- a). Universiti Putra Malaysia (UPM), Malaysia (March 2018 – June 2021).
- b). Njala University, Sierra Leone (2005/2006 – February, 2010 and 2011 – February, 2013).
- c). Bonthe Technical Training College, Sierra Leone, (1998/1999 – 2000 and 2002/2003 – 2005).

2. Secondary School

- a). Bonthe Secondary School [Form I – V (1991-1996)]

- b). Mini Mull Secondary School [Form III – 2 terms (1993)]
- c). St. Paul Secondary School, Pujehun [Form I (1990/1991)]

3. Primary School

- a). Sierra Leone Church (SLC), Masam Kpaka, Pujehun District [Class V-VII, (1988 -1990)].
- b). Islamic Call Society School, Bonthe [Class I- IV, (1986 – 1989).

C. SPECIFIC QUALIFICATIONS OBTAINED WITH DATES:

- 1. Doctor of Philosophy (**PhD**), Plant Genetics and Breeding, (2021).
- 2. Master of Science (**M. Sc.**) Crop Science, (2013).
- 3. Bachelor of Science [**B. Sc. (Hons)**] Crop Science, Division II second class with Distinction in Farm practice, (2010).
- 4. Higher Technical Diploma (**HTD**) in Agric. General, Division I, (2005).
- 5. Ordinary Technical Diploma (**OTD**) in Agric. General, Division I, (2000).

D. TRAINING AND SKILLS

- i. Lead facilitator in the Training on Manual Pollination and Management of Cocoa Seed Garden of IFAD/MOA Technicians from Liberia, July – August, 2022.
- ii. Welt Hunger Hilfe (WHH) Sierra Leone supported the Training of Selected Cocoa Farmers on Recommended principles in cocoa nursery practices and Cocoa Garden Management in the Eastern part of Sierra Leone, December, 2021.
- iii. Trained farmers and the Ministry of Agriculture and Forestry staff in budding and grafting of Cocoa to maintain genetic purity for Value Chain Development in the East and South of Sierra Leone, April, 2017.
- iv. One of the lead facilitators in the training of Farmers in value addition/chain of cocoa, oil palm and cashew – sponsored by Global Agriculture and Food Security Program (GAFSP) at Bo and Makeni, December, 2016.
- v. Training in Agronomic practices of Cocoa and Cashew, and the identification of parental crops for genetic purity in cocoa and cashew for yield improvement at Kpuwabu clonal seed garden, Eastern region of Sierra Leone. May, 2015.
- vi. One of the lead facilitators in the training of Ministry of Agriculture Extension Workers and Master Farmers on Budding and Manual Pollination of cocoa at Pendembu and Kpuwabu clonal seed gardens, sub research stations of KFTCRC/SLARI, May 2015, January 2014 and April, 2014.

E. WORKING EXPERIENCE WITH DATES:

- i. Research Officer I, Sierra Leone Agricultural Research Institute (SLARI), Kenema Forestry and Tree Crop Research Centre (KF/TCRC) **2013 – To date.**
- ii. Associate Lecturer, Department of Agronomy , Faculty of Development Agriculture and Natural Resources Management (ETUSL) **2022- up to date.**
- iii. Human Resource Officer (HRO) Bonthe Municipal Council, Bonthe, Sierra Leone, **2010 – 2012.**
- iv. Assistant Teacher, Islamic Call Society School, Bonthe, Sierra Leone, **2000 – 2010.**

- v. Part-time Teacher, Bonthe Secondary School, Bonthe, Sierra Leone, **2002 – 2003**.
- vi. PMU of Statistics Sierra Leone (SSL) 2004 Housing and Population Census, Enumerator – Dema Chiefdom, Bonthe District, Sierra Leone, **2004**.

F. BOOK CHAPTER

- ❖ Genetic improvement of oil palm through recurrent selection. In *The Oil Palm Genome* (pp. 35-46). Springer, Cham. **2020** (published).

G. PUBLICATIONS IN JOURNALS AS FIRST AUTHOR

1. Impact of *Elaeidobius kamerunicus* population in F1 hybrid-single generation families of oil palm on Malaysia profound peat-soil." *International Journal of Environment, Agriculture and Biotechnology* 7 (**2022**): 3. <https://dx.doi.org/10.22161/ijeab.73.5>.
2. Oil Palm Inflorescence Sex Ratio and Fruit Set Assessment in *dura* × *pisifera* Biparental Progenies on Fibric Peat Soil. *Agronomy*, (**2021**). <https://doi.org/10.3390/agronomy11071380>.
3. Assessment of oil palm pollinating weevil (*Elaeidobius kamerunicus*) population density in biparental *dura* × *pisifera* hybrids on deep peat-soil in Perak state, Malaysia. *Insects*, (**2021**), 12(3), 221. <https://doi.org/10.3390/insects12030221>.
4. Study on Yield Variability in oil palm progenies and their genetic Origins. Biol. Life Sci. Forum (**2021**), Volume 4, Issue 1, 68. <https://doi.org/10.3390/IECPS2020-08760>.
5. Influence of parental *dura* and *pisifera* genetic origins on oil palm fruit set ratio and yield components in their D×P progenies. *Agronomy*, (**2020**), 10(11), 1793. doi:10.3390/agronomy10111793.

H. PUBLICATIONS IN JOURNALS AS CORRESPONDING AUTHOR

1. Patched Network and its Vertex-Edge Metric-Based Dimension. *IEEE Access* (**2023**). 10.1109/ACCESS.2023.3235398.
2. Topological Descriptors for the Metal Organic Network and Its Structural Properties (**2022**). *Journal of Mathematics*, <https://doi.org/10.1155/2022/9859957>.
3. Two Complex Graph Operations and their Exact Formulations on Topological Properties (**2022**). *Complexity*, <https://doi.org/10.1155/2022/6927111>

I. PUBLICATIONS IN JOURNALS AS CO-AUTHOR

1. Genotypic and phenotypic selection of newly improved puta rice and the correlations among quantitative traits." *Diversity* 14, no. 10 (2022): 812. <https://doi.org/10.3390/d14100812>
2. Superabsorbent polymer hydrogels for sustainable agriculture: A review." *Horticulturae* 8, no. 7 (2022): 605, <https://doi.org/10.3390/horticulturae8070605>
3. Evaluation of Inherited Resistance Genes of Bacterial Leaf Blight, Blast and Drought Tolerance in Improved Rice Lines. *Rice Science*, (**2021**), 28(3), 1-12.
4. Recent Strategies for Detection and Improvement of Brown Planthopper Resistance Genes in Rice: A Review; *Plants*, (**2020**), 9, 1202, 1-18.

5. Genetic inheritance of multiple traits of blast, bacteria leaf blight resistant and drought tolerant rice lines. *International Journal of Applied Biology*, (2019), 3(2), 1-34.
6. Marker-assisted selection and gene pyramiding for resistance to bacterial leaf blight disease of rice (*Oryza sativa* L.). *Biotechnology & Biotechnological Equipment*, (2019), 1-17, ISSN: 1310-2818.
7. Growth and yield performance of six bush line genotypes of common bean (*Phaseolus vulgaris* L.) In inland valley swamp ecology in the dry season. *International Journal of Agriculture, Environment and BioResearch*, (2017), 2(04), 1-18, ISSN: 2456-8643.

J. RESEARCH AND REVIEW ARTICLES CURRENTLY UNDER REVIEW

- 1) The Role of *Elaeidobius kamerunicus* as an Economic Arthropod Pollinator in Oil Palm Cultivation: A review.
- 2) Phenotypic Assessment of Oil Palm Diversities Through Field-Level Screening for better Yield Performance on Njala Upland Soil.
- 3) Comparative Yield Variability Assessment in Spiral Phyllotaxy Directions in closed Pollinated Oil Palm (*Elaeis guineensis* Jacq) Genotypes on Kpuwabu upland Soil.
- 4) Inclusive Study in Determining Major Factor on Declining Trend of Oil Palm Fruit set and Oil Yield.

K. UNPUBLISHED RESEARCH ARTICLES

Evaluate Growth and Yield of seven (7) Bush line varieties of Common Bean (*Phaseolus vulgaris* L.) on the dry Season, M. Sc., Thesis, **2012**.

Investigate Growth Rates of four (4) Cassava (*Manihot esculenta* Crantz) cultivars in Island Valley ecology, B. Sc., Thesis, **2008**.

Effect of Barley and Palm kernel residues as manure on the growth and yield of Maize in both Seasons, HTD Dissertation, **2004**.

Effect of Weed infestation on the growth and yield of Maize in the first Season, OTD Dissertation, 1999.

L. SCIENTIFIC INDEX 2023:

World Scientists and University Rankings 2023					
Institution (SLARI)	Country	Region	World	Name	Country
02	31	30069	1018903	Senesie Swaray	Sierra Leone

M. SEMINAR ATTENDED

No.	DATE	ORGANIZERS	SEMINAR TITLE
1	November 2022	Small and Medium Enterprises Development Agency (SMEDA)	Regional stakeholders dialogue forum on effective partnership and coordination of MSME development in Sierra Leone.
2	September 2022	The Office of the Chief Minister, Sierra Leone	Review of 2007 Sierra Leone Agricultural Research

			Institute Act and validation of Act, 2023.
3	December 2020	Sciforum Plant MDPI	1 st International Electronic Conference on Plant Science (IECPS 2020) (Oral presentations)
4	November 2020	Pusat Pengajian Perakaunan Tunku Puteri Safinaz. Universiti Utara Malaysia (UUM)	5 th International Conference on E-Commerce (ICoEC 2020). Future Trends in Global Digital Economy: An Insight from Industries, Virtual Conference (Oral presentations)
5	September 2020	Universiti Utara Malaysia (UUM)	The 2 nd International Scholars Conference Universiti Utara Malaysia (ISCUUM) 2020 on Globalising Multidisciplinary Perspectives in Research via Cisco Webex (Oral presentations)
6	September 2020	C-International Tutors	Workshop on Basic Skills in Referencing with EndNote
7	September 2020	International Palm Oil Sustainability Conference (IPOSC 2020)	What Lies Ahead Post COVID-19 for oil palm farmers.
8	September 2020	C-International Tutors	Basic Skills in Deserption Writing
9	July 2020	C-International Tutors	Basic skills in Dissertation and Data Presentation
10	June 2020	Institute of Asian Agricultural Research (IAAR)	How plant breeding can be deployed to mitigate the impacts of COVID-19 on food and nutrition security across the African continent Confirmation
11		Plantation Studies Universiti Putra Malaysia (UPM)	Our solutions are in nature. Effects to use nature-based solutions for a better planet.
12	May 2020	CO-fes Foundation for Ecological Security (FES)	High-level virtual panel on “Dealing with commons: Solutions from nature”
13	May 2020	Department of Crop Science, Faculty of Agriculture, Universiti Putra Malaysia (UPM)	Workshop of Scientific writing and publication ethics
14	May 2020	Universiti Putra Malaysia (UPM) Library online training session	Subscribed Library Databases
15	February 2020	The Laboratory of Climate-Smart Food Crop Production, Institute of Tropical	Workshop on Manuscript submission and publication.

		Agriculture and Food Security (ITAFoS), Universiti Putra Malaysia	
16	January 2020	Universiti Putra Malaysia (UPM) through School of Graduate Studies (SGS)	Avoiding Plagiarism
17	November 2019	Faculty of Agriculture and Institute of Tropical Agriculture and Food Security (ITAFoS), Universiti Putra Malaysia	Role of Breeding and Genetics to make possible and the impossible- The case towards Palm oil industry surging forward the next 100 years and sustainable Chickpea production in Canada.
18	November 2019	International Society of Oil Palm Agronomist (ISOPA).	Current status of Oil Palm Fruit set in Malaysia and India and the use of HATCH & CARRY Technique to improve pollination in Oil Palm.
19	November 2019	Malaysia Palm Oil Board (MPOB).	International Palm Oil Congress and Exhibition (PIPOC).
20	November 2019	International Society of Oil Palm Breeders (ISOPA).	International Seminar on Ganoderma Tolerance in Oil Palm.
21	August 2019	Universiti Putra Malaysia & Kasetsart University Postgraduate Colloquium and Research Forum.	Food security sustainability in Southeast Asia.
22	March 2018	Malaysian Research Institute on Aging, Universiti Putra Malaysia.	Seminar strategies on Literature Search
23	March 2018	Institute of Tropical Agriculture and Food Security (ITAFoS), Universiti Putra Malaysia	Workshop on paper review and use of software for analysis of data on genetics
24	April 2018	Malaysia Oil Palm Board (MPOB)	Programme Advisory Committee (PAC)
25	July 2018	Institute of Islam Hadhhari, UKM, Department of Islamic Development Malaysia (JAKIM) & UKM Graduate Centre	8 th Intellectual Dakwah Discourse for International Students (IDDIS) 2018 “Best Management Practices Through Maqasid Syariah in Malaysia”
26	July 2018	Institute of Plantation Studies (IKP) University Putra Malaysia	Putra Plantation Forum – Series 8. “Latest advances on the nutrition of palm oil”
27	July 2018	Research Academy, Elsevier publishing workshop – Auditorium, Faculty of Veterinary Medicine, Universiti Putra Malaysia	Writing a Great Paper and Getting it Published in a Research Journal

28	October 2018	Graduate on Time (GOT), and offshoot of the Putra sarjana seminar, instituted by the School of Graduate Studies (SGS), Universiti Putra Malaysia	Introduction to thesis, Manuscript Writing and Publication.
29	October 2018	Institute of Plantation Studies (KIP), Universiti Putra Malaysia	International student forum on plantation Technology
30	November 2018	Malaysian Research Institute on Aging, Universiti Putra Malaysia.	Writing a Review: Scoping, Systematic or Overview.
31	November 2018	The Laboratory of Climate-Smart Food Crop Production, Institute of Tropical Institute of Tropical Agriculture and Food Security (ITAFoS), Universiti Putra Malaysia	Workshop on Manuscript submission to the journal and use of software for analysis of data on genetic.
32	December, 2018	Department of Land Management, Faculty of Agriculture, Universiti Putra Malaysia	Key Word Sequence, Importance (KIS): A Potential Technique for Quality Thesis and Publication

N. WORKSHOPS ATTENDED

2022: Proposal presentations on business plan for sustainable agricultural development by Eastern Technical University, Sierra Leone.

2021: Risk management and Organizational Development training by Sierra Leone Agricultural Research Institute.

2015: Sierra Leone Agricultural Research Institute annual work programme conference (AWPC).

2013: Geographic Information System (GIS) and its applications for Sustainable Agricultural Development.

2012: Health sector review summit for Sierra Leone.

2012: Carer Training for Final year and Master Degree Students.

2012: The project for Capacity Development for Comprehensive District Development (CDCD)/ Ministry of Local Government and Rural Development (MLGRD)/JICA for District / Rural Development hand book forum.

2012: Contingent Liability in the Public Sector, Sierra Leone.

2012: Training course in Sustainable Agriculture, Environment and the Community.

2011: Community Capacity Enhancement through Community Conversation (CCE – CC).

2010: Formulation of Bye – Law for Children in Bonthe District, Sierra Leone.

2010: Base line survey for need assessment in Sherbro Island, Development Programme (ADP), World Vision, Sierra Leone.

O. DESIGNATIONS

2023 – To date: Reviewer for Malaysian Palm Oil Board.

2022 – To date: Head of Research unit for all scientists at KFTCRC.

2014 - To date: Head of sub research station of KFTCRC, Kpuwabu Clonal Seed Garden, Gaura chiefdom, Kenema District, Sierra Leone.

2008 – 2009: Minister of Agriculture, Student Union Government, Njala University, Sierra Leone.

2007 – 2008: Secretary General, Muslim Student Association (MSA), Njala University Sierra Leone.

2004 - 2005: Secretary General, Accountability Now Club (ANC), Bonthe Technical Training College, Bonthe, Sierra Leone.

2003 – 2005: Secretary General, Bonthe United Multipurpose Co-operative Society, Bonthe, Sierra Leone.

2001 – 2005: Agricultural Officer, Islamic Call Society (ICS) School, Bonthe, Sierra Leone.

2003 – 2004: Games and Sports Officer, Islamic Call Society School, Bonthe, Sierra Leone.

P. COMPETENCY / SKILLS

- Fluent in English.
- Knowledge of Local Languages (Mende, Krio and Sherbro).
- Capability to undertake, implement and manage Agricultural productivity especially Crop production using improved cultural practices efficiently.
- Working in multicultural Environment effectively with little supervision.
- Capability of writing clearly structured and significant report on short notice.

Q. HOBBIES

Sports and Reading.

R. REFEREES

1. Professor Dr. Mohd Y. Rafii,
Director,
Institute of Tropical Agriculture and Food Security,
Universiti Putra Malaysia (UPM)
43400 Serdang, Selangor, Malaysia.
Email address: mrafi@upm.edu.my
Contract number: +60 19-309 6876
2. Professor Dr. Mohamed T. Lahai
Principal and Vice Chancellor,
Eastern Technical University, Sierra Leone
E-mail address: profmtlahai@gmail.com
Contract number: 23233-838-551 / 23276- 617-229.
3. Dr. John M. Kallon,
Former Officer in charge,

Kenema Forestry and Tree Crops Research Centre (KF/TCRC),
I.D.A. Compound, Kenema,
Sierra Leone, West Africa.
E-mail address: nollakmj2013@yahoo.com
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