**CV**

**DR. JOHN SAVIOUR YAW ELEBLU**

***Senior Lecturer (Biotechnology Centre, University of Ghana)***

***Coordinator Research Programmes (West Africa Centre for Crop Improvement)***

***Plant Molecular Geneticist***

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***CURRENT RESEARCH INTEREST***

Plant Biologist, Lecturer and Researcher with interest in crop improvement and biotechnologies for food and nutrition security and sustainable development.

***EDUCATION***

- PhD. Plant Biology, University Paris Sud, France (10/2009-05/2013)

- MPhil. Crop Science, University of Ghana (08/2006-08/2008)

- BSc. Hons. Agricultural Science, University of Ghana (08/2001-08/2005)

- Senior Secondary School Certificate, Achimota Secondary School

***AWARDS:***

I. USDA Norman Borlaug Fellowship, Alcorn State University, 2016

II. French Government Scholarships, France 2009

III. University of Ghana Faculty Development Grant, 2009

IV. African scientist fellowship programme, Cornell University (IGD) 2007

***RESEARCH GRANTS HISTORY***

2022 – 2027 **US$ 557,750**: KGL Foundation sponsored incubator programme at the Kofi Annan Enterprise Hub for Agricultural Innovation (KAEHAI), WACCI for the training of young agribusiness entrepreneurs (**Coordinator and Co-Investigator**)

2022 – 2027 **US$ 3,070,000:** Ghana Government Post COVID-19 Skills Development and Productivity Enhancement Project (PSDPEP) funded by the African Development Bank **(Coordinator and Co-Investigator)**

2022 – 2027 **US€ 50,000:** “Mapping of Genetic Associations of Number of Pods Per Plant and Number of Seeds Per Pod in Cowpea” under International Atomic Energy Agency’s (IAEA) Coordinated Research Projects (CRPs) titled “Radiation-induced crop diversity and genetic associations for accelerating variety development”. (**Chief Scientific Investigator**)

2021 – 2022 **GHS 56,944:** Capacity Development and Supply of Seedlings of Turkey Berries (*Solanum torvum*) to Selected Districts in the Central, Eastern and Greater Accra Regions of Ghana within the project (TCP/GHA/3703) Funded by FAO at the Biotechnology Centre (**Principal Investigator**)

2019 – 2020 **GB£ 20,000:** Cambridge-Africa funded Project on “Upscaling Cowpea Improvement for food security in Ghana” (**Lead Local Investigator**)

2018 – 2021 **US$ 1,000,000** African Union (AU) funded Project on “Crop and Soil Health Improvement for Sustainable Agricultural Intensification Towards Economic Transformation in Sub-Saharan Africa” (**Co-Principal Investigator**)

2018 – 2019 **US$ 40,000:** Soybean Improvement Initiative for Increased Productivity in Partnership with University of Illinois Urbana Champaign (UIUC), USA. (**Lead Local Investigator**)

2018 – 2019 **GB£ 20,000:** Cambridge-Africa funded project on “Establishment of Tissue Culture and Genetic Transformation for Scalable Cowpea Improvement in Sub- Saharan Africa”. (**Lead Local Investigator/Project Collaborator**)

2014 – 2018 **US$ 8,000,000:** World Bank Project on developing WACCI into an African Centre of Excellence (ACE) for training plant breeders, seed scientists and seed technologists (**Coordinator**)

2010 **US$ 90,000:** WACCI-Biotech Summer School funded by the VW Foundation (**Resource Person**)

***SCIENTIFIC PUBLICATIONS***

1. Aliyu, A., Ishiyaku, M.F., Offei, S.K., Asante I.K., **Eleblu, J.S.Y**., Aliyu, R.E. Enhancing cowpea production through breeding efforts for aphid (*Aphis crassivora* koch) resistance: a review. *Euphytica* 219, 19 (2023). <https://doi.org/10.1007/s10681-022-03140-7>
2. Ousseini, A.A., Ibrahim, M.A., **Eleblu, J.S.Y.,** Ofori, K. and Haman, I.B. (2022) Identifying Sorghum Yield Limiting Factors and Farmer’s Criteria Traits in East and Northern West Niger. *Open Access Library Journal*, 9, 1-17. <https://doi.org/10.4236/oalib.1109543>
3. Aghogho CI, **Eleblu SJY,** Bakare MA, Ismail KS, Asante I, Parkes EY, Kulakow P, Kwame O and Rabbi I (2022) Genetic variability and genotype by environment interaction of two major cassava processed products in multi-environments. *Front. Plant Sci.* 13:974795. doi: 10.3389/fpls.2022.974795
4. Opoku Gyamfi M, **Eleblu JSY**, Sarfoa LG, Asante IK, Opoku-Agyemang F and Danquah EY (2022) Induced variations of ethyl methane sulfonate mutagenized cowpea (*Vigna unguiculata* L. walp) plants. *Front. Plant Sci.* 13:952247. doi: 10.3389/fpls.2022.952247 (Corresponding Author)
5. Kachiguma, N.A., Ifie, B.E., **Eleblu, J.S.Y.** *et al.,* Variability of root traits, seed size and tolerance to low soil phosphorus in common bean (*Phaseolus vulgaris* L.). *J. Crop Sci. Biotechnol.* 25, 349–358 (2022). <https://doi.org/10.1007/s12892-021-00136-y>
6. Mwamahonje, A.; **Eleblu, J.S.Y**.; Ofori, K.; Deshpande, S.; Feyissa, T.; Tongoona, P. Drought Tolerance and Application of Marker-Assisted Selection in Sorghum. *Biology* 2021, 10, 1249. https://doi.org/10.3390/ biology10121249
7. Mwamahonje A, **Eleblu J,** Ofori K, *et al.,* (2021) Determination of Physiological Traits contributing to Drought Tolerance and Heritability of Sorghum Genotypes. *Research Square*; 2021. DOI: 10.21203/rs.3.rs-258183/v1.
8. Mwamahonje, A.; **Eleblu, J.S.Y.**; Ofori, K.; Feyissa, T.; Deshpande, S.; Garcia-Oliveira, A.L.; Bohar, R.; Kigoni, M.; Tongoona, P. Introgression of QTLs for Drought Tolerance into Farmers’ Preferred Sorghum Varieties. *Agriculture* 2021, 11, 883. <https://doi.org/10.3390/agriculture11090883>
9. Mwamahonje, A.; **Eleblu, J.S.Y**.; Ofori, K.; Deshpande, S.; Feyissa, T.; Bakuza, W.E. Sorghum Production Constraints, Trait Preferences, and Strategies to Combat Drought in Tanzania. *Sustainability* 2021, 13, 12942. <https://doi.org/10.3390/su132312942>
10. Mwamahonje, A.; **Eleblu, J.S.Y**.; Ofori, K.; Feyissa, T.; Deshpande, S.; Tongoona, P. (2021) Evaluation of Traits’ Performance Contributing to Drought Tolerance in Sorghum. *Agronomy*. <https://doi.org/10.3390/agronomy11091698>
11. Kachiguma, N.A., Ifie, B.E., **Eleblu, J.S.Y**. *et al.,* Variability of root traits, seed size and tolerance to low soil phosphorus in common bean (*Phaseolus vulgaris* L.). *J. Crop Sci. Biotechnol.* (2021). <https://doi.org/10.1007/s12892-021-00136-y>
12. Kachiguma, N. A., Ifie, B. E., **Eleblu, J. S. Y**., Maliro, M. F. A., Tongoona, P. B., & Ofori, K. (2021). Preliminary evaluation of genetic inheritance of root traits of common bean (*Phaseolus vulgaris* L.) for tolerance to low soil phosphorus. *African Journal of Agricultural Research*, 17(6), 875-881. <https://doi.org/10.5897/AJAR2021.15443>
13. Sinare B., Miningou A., Nebié B., **Eleblu J**., Ofori K., Traoré A., Zagre B. and Desmae H. (2021). Participatory analysis of groundnut (*Arachis hypogaea* L.) cropping system and production constraints in Burkina Faso. *Journal of Ethnobiology and Ethnomedicine*. Volume 17, Issue 2 <https://doi.org/10.1186/s13002-020-00429-6>
14. Roldan M. V. G., Izhaq F., Verdenaud M., **Eleblu J.**, Haraghi A., Sommard V., Chambrier P., Latrasse D., Jégu T., Benhamed M., Szécsi J., Bendahmane M., Boualem A. & Bendahmane A. (2020) Integrative genome-wide analysis reveals the role of WIP proteins in inhibition of growth and development. *Communications Biology* 3, 239. https://doi.org/10.1038/s42003-020-0969-2
15. **Eleblu, J.S.Y.,** Haraghi, A., Mania, B., Camps C., Rashid, D., Morin, H., Dogimont, C., Boualem A., & Bendahmane A. (2019) The gynoecious CmWIP1 transcription factor interacts with CmbZIP48 to inhibit carpel development. Scientific Reports 9, 15443 doi:10.1038/s41598-019-52004-z
16. Ngalamu, T., Meseka, S. K., Ifie, B. E., Ofori, K., & **Eleblu, J.S.Y.** (2019). Analysis of Phenotypic Stability in 25 Cowpea Genotypes Across Six Environments. Indian Journal of Agricultural Research DOI: 10.18805/IJARe.A-429 (Corresponding Author)
17. Bonney, P., **Eleblu, J.S.Y.,** & Eziah, V. (2019). Screening of 25 cowpea genotypes for resistance to Megalurothrips sjostedti Trybom in southern Ghana, Legumes Research https://doi.org/10.18805/LR-477 (Corresponding Author)
18. Dadzie, M. A., Oppong, A. , Ofori, K. , **Eleblu, J. S.,** Beatrice, I. E., Blay, E. T., Obeng‐Bio, E. , Appiah‐Kubi, Z. and Warburton, M. L. (2019), Distribution and genetic diversity among Aspergillus flavus isolates across three agro‐ecologies essential for maize cultivation in Ghana, Plant Pathology. doi:10.1111/ppa.13067
19. Dadzie, M. A., Oppong, A., Ofori, K., **Eleblu, J. S.,** Ifie, E. B., Blay, E., Warburton, M. L. (2019). Distribution of Aspergillus flavus and aflatoxin accumulation in stored maize grains across three agro- ecologies in Ghana. Food Control, 104, 91–98. https://doi.org/10.1016/J.FOODCONT.2019.04.035
20. Sseremba, Godfrey, Pangirayi Tongoona, **John Eleblu**, Eric Yirenkyi Danquah, and Elizabeth Balyejusa Kizito. (2018). “Heritability of Drought Resistance in Solanum Aethiopicum Shum Group and Combining Ability of Genotypes for Drought Tolerance and Recovery.” Scientia Horticulturae 240 (October): 213–20. doi:10.1016/j.scienta.2018.06.028.
21. Sseremba, G., Tongoona, P., **Eleblu, J. S. Y.,** Danquah, E. Y., and E. B., Kizito (2018) Linear Discriminant Analysis of Structure Within African Eggplant ‘Shum’. African Crop Science Journal, Vol. 26, No. 1, pp. 37 - 48
22. Sseremba, G., Tongoona, P., **Eleblu, J. S. Y.,** Danquah, E. Y., Kaweesi T., Baguma Y., Masanza, M., and Kizito., E. B., (2018) “Stability of Solanum Aethiopicum Shum Accessions under Varied Water Deficit Stress Levels and Identification of Pertinent Breeding Traits for Resistance to Water Shortage.” Euphytica 214 (1): 11. doi:10.1007/s10681-017-2097-8.
23. Sseremba, G., Tongoona, P., **Eleblu, J. S. Y.,** Danquah, E. Y., Pamela Nahamya Kabod, P. N., and Elizabeth Balyejusa Kizito, E. B. (2017). Morphological Distinctiveness between Solanum aethiopicum Shum Group and its Progenitor, Journal of Plant Breeding and Crop Science (Corresponding Author)
24. Dawud, M. A., Angarawai, I. I., Tongoona, P. B., Ofori, K., **Eleblu, J. S. Y.,** and Ifie, B. E., (2017) Farmers’ Production Constraints, Knowledge of Striga and Preferred Traits of Pearl Millet in Jigawa State, Nigeria. Global Journal of Science Frontier Research: D Agriculture and Veterinary, 17 (3). pp. 1-7. ISSN 2249-4626
25. K., Offei, Yirenkyi Danquah E., Owusu-Darko R., **Eleblu J.,** and Adjei E. (2014). “5. Improving Food and Nutritional Security in Ghana through Mutation Breeding of Sorghum.” In Mutagenesis: Exploring Novel Genes and Pathways, 125–142. doi:10.3920/978-90-8686-787- 5\_5.
26. Foucart C., Boualem A., Lasseur B., **Eleblu J.,** Izhaq F., Bendahmane A. (2012) Le déterminisme du sexe chez les Cucurbitacées. Biologie Aujourd’hui, vol. 206 no. 1, pp. 57-62
27. **Eleblu J.** and Danquah E. (2006) A Review of the Applications of Single Nucleotide Polymorphisms (SNPs) In Crop Improvement. Journal of the Ghana Science Association Vol. 8. No. 2, pp. 13 – 25