

Ezekiel Dare OLOWOLAJU

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EDUCATION

May 2017-August 2019

Obafemi Awolowo University, Ile-Ife, Osun State, Nigeria

Ph.D. in Botany

Dissertation: Mitigation of Salinity Stress in Cowpea by Seed Priming with Magnetized Water and Hydrogen Peroxide Solution

Degree Awarded: October 2019

May 2014-February 2016

Obafemi Awolowo University, Ile-Ife, Osun State, Nigeria

M.Sc. in Botany

Dissertation: A Study of the Effect of Competition Stress on the Growth, Yield and Photosynthetic Pigments Accumulation of *Zea mays*, *Vigna unguiculata* and *Solanum lycopersicum*.

Degree Awarded: November 2016

April 2005-December 2009

Adeyemi College of Education, Ondo, *Affiliated to Obafemi Awolowo University, Ile-Ife, Osun State, Nigeria*

B.Sc. (Ed.) in Biology

Dissertation: The Effects of Measurement and Assessment of Standards on the Academic Performance Students.

A Case Study of Some Selected Schools in Ile-Oluji/Okeigbo Local Government Area of Ondo State.

Degree Awarded: November 2011

PROFESSIONAL AND RESEARCH EXPERIENCE

October 2022-till date

Lecturer and Researcher: Department of Biosciences and Biotechnology, Faculty of Science University of medical Sciences, Ondo

February 2021-till date	Part-time Lecturer: Adekunle Ajasin University, Akungba-Akoko, Ibadan Satellite Campus, Oyo State, Nigeria
November 2016-January 2020	Research Assistant: Supervisor: Prof. A. A. Adelusi: ` Botany Department, Obafemi Awolowo University, Ile-Ife, Nigeria
March 2011-March 2012	National Youth Service Corps (NYSC): Government Day Secondary School, Wuro-yanka, Shelling Local Government Area, Adamawa State.

RESEARCH INTEREST AND DIRECTION

- i. Plant Physiology and Biochemistry: Plant stress and tolerance, plant growth and development, and plant metabolism.
- ii. Plant Biotechnology: Tissue culture, omics (genomics, proteomics, ionomics and transcriptomics)
- iii. Plant Molecular Physiology and Genome study: Gene editing, protein isolations, blot analysis, PCR and qPCR, Chromatin and RNA immunoprecipitation.

ACADEMIC LINKAGES

Active Member of Scientific Bodies

- i. **Member**, Botanical Society of Nigeria (BOSON)
- ii. **Member**, Nigeria Conservation Foundation (NCF)
- iii. **Member**, Nigeria Field Society (NFS)

Reviewer of Reputable Journals

- i. Plant Cell Biotechnology and Molecular Biology
- ii. Asian Journal of Advances in Agricultural Research
- iii. Annals of Science and Technology (AST); An Official Journal of the Nigerian Young Academy

Scholarships and Awards

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| i. Federal Government of Nigeria Postgraduate Scholarship | 2013-2014 |
| ii. Ondo State Undergraduate Students Scholarship | 2006-2008 |

Conferences and Workshops Attended

- i. Workshop on Research Methodology, Africa Center of Excellence, Obafemi Awolowo University, Ile-Ife, Nigeria. June 3-7, 2019.
- ii. Annual International Faculty of Science Conference, Obafemi Awolowo University, Ile-Ife, Nigeria. 4-6 October, 2018.
- iii. 21st Annual Conference of Botanical Society of Nigeria, Obafemi Awolowo University, Ile-Ife, Nigeria. 13-16 August, 2018
- iv. 23rd Annual Conference of Botanical Society of Nigeria, University of Ibadan, Ibadan, Nigeria. 2016

Paper presented in conference

- i. **Olowolaju, E. D.**, OKunlola, G. O. and Adelusi A. A. (2017) Comparative Advantage of Intercropping Maize, Cowpea and Tomato to Sole culture. Page 56 in Book of Abstracts, 26th Annual Conference of Botanical Society of Nigeria, 13-18th August, 2018 Ekiti State University, Ado-Ekiti, Nigeria.
- ii. **Olowolaju, E. D.**, OKunlola, G. O. and Adelusi A. A. (2017) Growth and Yield of Cowpea, Maize and Tomato in Response Interspecific and Intraspecific Competition Stress . Page FSC-2018-10-004 in Book of Abstracts, Annual International Conference of Faculty of Science, 1-5th October, 2018, Obafemi Awolowo University, Ile-Ife, Nigeria.

PUBLICATIONS

- i. Okunlola, G. O., Olatunji, O. A., Obisesan, I. A., **Olowolaju, E. D.**, Ogunkunle, C. O. (2022) Foliar application of hydrogen peroxide (H₂O₂) modulates growth, inorganic ion and osmolyte accumulation of soybean (*Glycine max*) cultivars under drought stress. *South African Journal of Botany*. 151, 425432
- ii. Okunlola, G. O., **Olowolaju, E. D.**, Akinyemi, S. A., Jimoh, M. A. and Ajao, Y. O. (2021) Evaluation of Nutraceutical Properties of *Pleurotus ostreatus* (Jacq.) P. Kumm (Pleurotaceae). *Journal of Applied Sciences and Environmental Management* 25 (4), 643647
- iii. Olowolaju, E. D., Adelusi, A. A. (2021). Effects of Magnetized Water on Growth Performance, Photosynthetic Pigments Accumulation and Yield Attributes of *Vigna unguiculata* (L.) Walp. *Journal of Plant Physiology and Pathology*. 9(9): 267: 2
- iv. Gbadegesin, K. K., Okunlola., G. O., **Olowolaju, E. D** and Adelusi A. A (2021) Determination if type of potassium salt affects growth and yield of *Capsicum annum* and *Capsicum chinense* under drought stress. *Journal of Stress Physiology and Biochemistry*. 17 (2): 147154

- v. **Olowolaju, E. D.**, Adelusi, A. A., Okunlola, G. O. and Aderonbi, A. S. (2020). Critical growth stage of weed Removal in cowpea under water stress. *Journal of Stress Physiology and Biochemistry*. 16 (4): 95-101
- vi. Oseni, O. M., Dada, O. E., Okunlola, G. O., **Olowolaju, E. D.**, Akinropo, M. S., Afolabi, A. M. and Akinlabi, A. A. (2020). Phytoremediation technology, plant response to environmental contaminants and the need for soil augmentation. *Notulae Scientia Biologicae*. 12(3):486-499
- vii. **Olowolaju, E. D.**, Okunlola, G. O. and Oyetan, O. J. (2020) Growth, yield and some nutrient uptake of tomato as affected by different concentration of iron. *International Journal of Vegetable Science*. 27 (4), 378387
- viii. Jimoh, M. A., Okunlola, G. O., Olatunji, O. A. and **Olowolaju, E. D.** (2020). Effects of Phosphorous Application on Growth Performance, Yield and Nutritional Value of Cockscomb (*Celosia argentea* L). *J. Appl. Sci. Environ. Manage*. 24 (6): 1057-1061
- ix. **Olowolaju, E. D.**, Okunlola, G. O. and Adelusi, A. A. (2019). Yield response of maize, cowpea and tomato in mixed culture and pure stand. *Plants and Environment*. 1(2): 60-65
- x. **Olowolaju, E. D.** (2019). Impact of Hydrogen Peroxide on the Secondary metabolites, Enzyme Activities and Photosynthetic Pigment Accumulation of *Vigna unguiculata* L. (Walp). *Notulae Scientia Biologicae*. 11(3): 391-395
- xi. **Olowolaju, E. D.**, OKunlola, G. O.,and Adelusi, A. A. (2018) Competitive Tolerance And Yield Response Of Maize, Cowpea And Tomato In Mixed Culture And Pure Stand. bioRxiv preprintdoi: <https://doi.org/10.1101/344747>
- xii. **Olowolaju, E. D.**, Okunlola, G. O.Adejumo, M. A. and Adelusi, A. A. (2018) Effects of Prior Heat Stress on the Growth and Phytochemical Contents Accumulation of *Amaranthus hybridus*(Linn.). *Notulae Scientia Biologicae*. 10(2): 240-244
- xiii. Ogunboye, K. D., **Olowolaju, E. D.**, Afolabi, A. M. and Adelusi A. A. (2018). Proximate composition and photosynthetic pigments accumulation of soybean evaluated under different light and planting densities. *International Journal of Botany Studies*. 3(6): 4-8
- xiv. **Olowolaju, E. D.**, OKunlola, G. O. and Ayodele,A. O. (2017) Growth and Photosynthetic Pigments Accumulation of Jute Mallow (*Corchorus olitorius*) in Response to Different Levels of Magnesium Application. *Notulae Scientia Biologicae*. 9(2):214-218
- xv. **Olowolaju E. D.**, Adelusi A. A., Ogunboye K. D.,Afolabi A. M. and Okunlola G. O.. (2017) Interactive Effects of Light and Planting Density on the Growth and Yield of Soybean. *AASCIT Journal of Biology*.4 (1): 1-6

- xvi. **Olowolaju, E. D.**, and OKunlola, G. O. (2017) Comparative Advantage of Intercropping Maize, Cowpea and Tomato to Sole culture. *Annals of West University of Timișoara*. 20 (1): 31–38.
- xvii. **Olowolaju, E. D.** (2017) Comparative study of the phytochemical contents of *Cochorus olitorius* and *Amaranthus hybridus* at different stages of growth. *Annals of West University of Timișoara*. 20 (1): 43–48.
- xviii. Ademoh O. F., Afolabi A. M., Orisona K. and **Olowolaju E. D.** (2017) Isolation and Identification of Rot Fungi on Post-Harvest of Pepper (*Capsicum annum* L.) Fruits. *AASCIT Journal of Biology*. 20 (1): 31–38.
- xix. **Olowolaju, E. D.** and Adelusi, A. A. (2017) Photosynthetic Pigments Accumulation and Some Growth Indices of Cowpea, Maize and Tomato in Response to Interspecific and Intraspecific Competition Stress. *Science in Cold and Arid Region*. 9(2): 1–6.
- xx. OKunlola, G. O., Adelusi, A. A, **Olowolaju E D**, Oseni O. M., Akingboye, G. L. (2015) Effect of water stress on the growth and some yield parameters of *Solanum lycopersicum*. *International Journal for Chemical and Biological Sciences*. 9(4):1755-1761

REFEREES

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