

PERSONAL INFORMATION

Anicet A. Batcho

📍 Group of Molecular Physiology
Laboratory of Growth Regulation
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Sex Male | Date of birth 23/April/1987 | Nationality Beninese

2016-2019

PhD in Molecular Biology

Research topic

- 1) Identification and Characterization of HSP70 Gene from *Agave sisalana* and its Expression in Cotton under Heat Stress

2011-2014

Master of Sciences

Research topic

2. Comparison of five isolates of *Beauveria bassiana* on cabbage moth *Plutella xylostella*,

2008-2011

Bachelor of Sciences

Research topic

3. Characterization of *Ipomea batatas* (16 varieties) in the agro ecological condition of Benin

STUDIES

WORK EXPERIENCE

May 2019

Forestry Research Institute of Nigeria

Resource Person for "Basic knowledge in bioinformatics for molecular research"

April 2019

COMSTECH-ICGEB

Facilitator for "Use of Genome Editing and others New Breeding Technologies for Global Food Security"

June 2018

Federal University of Agriculture, Nigeria

Facilitator for the ICGEB Course on molecular techniques in the study of bacteria associated with crops

Centre of Excellence in Molecular Biology

December 2016

Training course for Islamic countries on Planning of cotton production, land preparation, weed control, pest and disease control and harvesting

Curriculum Vitae

International Institute of tropical Agriculture IITA Benin IITA-Benin
Research Assistant

Supervision of BSc and MSc students

February 2014 - June 2016

- a) Evaluation of the pathogenicity of four isolates of *Metarhizium anisopliae* on cowpea weevil *Callosobruchus maculatus* and maize weevil *Sitophilus zeamais* Motschulsky
- b) Sensibility of *Helicoverpa armigera*'s larvae against virus and fungus *Metarhizium anisopliae* in laboratory
- c) Coating of cabbage seed to evaluate the potential endophytic effect of *Beauveria bassiana*
- d) Bioassay of potential efficacy of *Beauveria bassiana* and neem extract for *Poophilus costalis* control
- e) Storage of *Beauveria bassiana* strain Bb5653 in emulsifiable formulation

March-September 2014

Ministry of Agriculture Benin

Assistant

Service of Programming and Planning Department

University of Agriculture, Abeokuta (UNAAB), Ogun State, Nigeria

September 2012

16th International Symposium of the International Society for Tubers & Roots Crops (ISTRC) on Root Crops

TRAINING

2020

- 1) Molecular and physiological mechanisms of drought tolerance in Rice
- 2) Integrating genomics for accelerating the rate of genetic gain for chickpea improvement
- 3) CRISPR in Agriculture: Context of Improving Water Use Efficiency (WUE)
- 4) Harnessing transcriptome resources of non-crop models for improving stress resilience in rice

2014

- 5) Needs and priorities of Benin in trade facilitation on "Capacity building in Training for Rural Economic Empowerment (TREE Methodology)"
- 6) Expanding economic opportunity and income security through workflow education, skills training, employment creation, and local economic development

PERSONAL SKILLS

language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
French	fluent	fluent	fluent	fluent	fluent
English	good	good	good	good	good

Communication skills

Communication skill in French and English language,

Curriculum Vitae

Organisational / managerial skills	<ul style="list-style-type: none">▪ Excellent communication skills.▪ Willingness to learn and adapt to new responsibilities.▪ Ability to establish and maintain positive working relationship with colleagues.▪ Ability to set priorities, and work within a work schedule.▪ Ability to work efficiently under pressure, juggle tasks and meet deadlines.▪ Effective self-control and stress management methods.
Job-related skills	<ol style="list-style-type: none">1. Tools & techniques related to the functional study & development of plant biotechnologies2. Identification & characterization of superior traits in plant3. Transient expression study in plant using model plants (<i>Arabidopsis</i> & tobacco)4. Genetic transformation of plant5. Gene expression analysis6. Tissue culture7. Protein extraction & purification8. ELISA9. Bioinformatics10. Biological control11. Bioassay
Computer skills	Good knowledge on Bioinformatics and analysis using Prism, SPSS, SAS & R

ADDITIONAL INFORMATION

PUBLICATIONS

- Sarwar, M. B., Ahmad, Z., **Batcho, A. A.**, Sajid, M., Rashid, B., Hassan, S., ... & Husnain, T. (2020). Identification and validation of superior housekeeping gene (s) for qRT-PCR data normalization in *Agave sisalana* (a CAM-plant) under abiotic stresses. *Physiology and Molecular Biology of Plants*, 1-18. <https://doi.org/10.1007/s12298-020-00760-y>
- Batcho, A. A.**, Sarwar, M. B., Tariq, L., Rashid, B., Hassan, S., & Husnain, T. (2020). Identification and characterisation of heat shock protein gene (HSP70) family and its expression in *Agave sisalana* under heat stress. *The Journal of Horticultural Science and Biotechnology*, 95(4), 470-482. <https://doi.org/10.1080/14620316.2019.1685412>
- Time, I., Nwogwugwu, J. O., & **Batcho, A. A.** (2020). Incidence of Maize Streak Disease in Maize Cultivated During Late Cropping Season in Three Agricultural Zones of Benue State, Nigeria. *Journal of Applied Sciences and Environmental Management*, 24(8), 1441-1446. [10.4314/jasem.v24i8.20](https://doi.org/10.4314/jasem.v24i8.20)
- Adeyinka, O. S., Riaz, S., Toufiq, N., Yousaf, I., Bhatti, M. U., **Batcho, A. A.**, & Tabassum, B. (2020). Advances in exogenous RNA delivery techniques for RNAi-mediated pest control. *Molecular Biology Reports*, 1-11. [10.1007/s11033-020-05666-2](https://doi.org/10.1007/s11033-020-05666-2)
- Ali, M., Javaid, A., Naqvi, S. H., **Batcho, A. A.**, Kayani, W. K., Lal, A., ... & Nwogwugwu, J. O. (2020). Biotic stress triggered small RNA and RNAi defense response in plants. *Molecular Biology Reports*, 1-12. [10.1007/s11033-020-05583-4](https://doi.org/10.1007/s11033-020-05583-4)
- Basit J., **Batcho A. A.**, Sarwar, M. B, Bushra R., Sameera H. and Tayyab H., (2020) "RNA-Seq Data Analysis Unveils Potential Conserved Micro-RNAs in *Agave Deserti*", *Current Proteomics* 17: 1. <https://doi.org/10.2174/1570164617999200529122637>

- Nwogwugwu, JO; **Batcho, A.A**; Time, IM (2020) Incidence & Management of *Colletotrichum gloeosporioides* Canker on *Jatropha curcas* L. in Ibadan, Southwestern Nigeria, *Journal of Applied Sciences & Environmental Management* 24 (10), 1811-1814 [10.4314/jasem.v24i10.15](https://doi.org/10.4314/jasem.v24i10.15)
- Time, I; Okoroafor, E; Nwogwugwu, JO; **Batcho, AA** (2020) Evaluation of whitefly population and weather effect on cassava mosaic incidence of on commonly grown cassava in Benue State, Nigeria, *Journal of Applied Sciences & Environmental Management* 24 (10), 1839-1846 [10.4314/jasem.v24i10.20](https://doi.org/10.4314/jasem.v24i10.20)
- Nwogwugwu, J. O., & **Batcho, A. A.** (2019). Antifungal potentials of some botanicals on *Sclerotium rolfsii* schum., the causal pathogen of damping-off of *Gmelina arborea* Roxb. in Ibadan, Southwestern Nigeria. *Journal of Plant Diseases and Protection*, 126(6), 543-551. <https://doi.org/10.1007/s41348-019-00267-z>
- Jabbar, B., Iqbal, M. S., **Batcho, A. A.**, Nasir, I. A., Rashid, B., Husnain, T., & Henry, R. J. (2019). Target prediction of candidate miRNAs from *Oryza sativa* for silencing the RYMV genome. *Computational biology and chemistry*, 83, 107127. <https://doi.org/10.1016/j.compbiolchem.2019.107127>
- Adeyinka, O.S., Tabassum, B., Nasir, I.A., Yousaf, I., Sajid, I.A., Shehzad, K., **Batcho, A. A** and Husnain, T., 2019. Identification and validation of potential reference gene for effective dsRNA knockdown analysis in *Chilo partellus*. *Scientific reports*, 9(1), pp.1-11. <https://doi.org/10.1038/s41598-019-49810-w>
- Batcho, A. A**, Ali, M., Samuel, A. O., Shehzad, K., & Rashid, B. (2018). Comparative study of the effects of five *Beauveria bassiana* (Balsamo) Vuillemin (Ascomycota: Hypocreales) strains on cabbage moth *Plutella xylostella* (L.)(Lepidoptera: Plutellidae). *Cogent Environmental Science*, 4(1), 1477542. <https://doi.org/10.1080/23311843.2018.1477542>
- Haastrup, N. O., **Batcho, A. A.**, Nwogwugwu, J. O., & Nurudeen, T. A. (2019). Suitability of Selected Indigenous Wood Wastes on Yield and Biological Efficiency of Edible Mushroom (*Pleurotus florida*). 10 (2), 20-25 [10.31901/24566535.2019/10.1-2.119](https://doi.org/10.31901/24566535.2019/10.1-2.119)
- Batcho, A. A**, Nwogwugwu, J. O., Adeyinka, S. O., Mohsin, A., & Murtaza, S. (2018). Evaluation of the agronomic characteristics of 16 varieties of sweet potato (*Ipomoea batatas*) grown in the agro-ecological conditions of southern Benin. *J. Agric. Sci*, 9, 20-28. [10.31901/24566535.2019/09.1-2.121](https://doi.org/10.31901/24566535.2019/09.1-2.121)
- Batcho, A.A**, Bilal Sarwa, and Bushra Rashid. "Homology Modeling and Functional Annotation of Heat Shock Protein (HSP) Gene from *Agave Americana*." *Journal of Advances in Molecular Biology* 1.2 (2017). <https://dx.doi.org/10.22606/jamb.2017.12004>

Article in Press

- Batcho A. A**, Jabbar B, Sarwar MB, Rashid B, Hassan S, Husnain T (2020a) Transient expression analysis of *Agave sisalana* HSP70 (AsHSP70) in tobacco (*Nicotiana benthamiana*) under abiotic stresses. *Biology Bulletin*
- Batcho, A. A**, Sarwar, BM, Bushra R, Hassan S, Tayyab H (2020a) Heat Shock Protein Gene Identified from *Agave sisalana* (AsHSP70) Confers Heat Stress Tolerance in Transgenic cotton (*Gossypium hirsutum*)"
- Nwogwugwu J.O., Adewale B.D., **Batcho, A.A**, Osunlaja O.A. and Ekpo E.N (2020) Occurrence and Pathogenicity of Fungi genera on *Jatropha curcas* L. in South-western Nigeria, *Journal of Plant Pathology*

Article under review

- A. Javaid, M. Ali, **Batcho A.A**, A. Gul, S. Ullah Jan, T. Nazish, W. Khan Kayani, (2021) Genetic Components of Root System Architecture (RSA) to Tolerate Drought Stress in Three Major Cereal Crops" *Plant & Soil*
- Batcho A.A**, Sarwar M.B, Bushra R, Sameera H. & Tayyab H. (2021) Heat Shock Proteins 70 kDa (HSP70) Gene: Transcriptomic Oven to Incubate Plants' Hot Desert *Journal of Plant Research*
- Sarwar M.B, **Batcho A.A**, Sameera H, Bushra R (2021) RNA-Seq of *Agave sisalana*: A genomic desert floating onto molecular ocean of drought Gene and Genomic (GENG)

Proceedings

- Batcho AA**, Sarwar MB, Jabbar B, Rashid B, Hassan S, and Tayyab Husnain (2019). Heat shock proteins (HSPs) gene family in *Agave sisalana*: identification and analysis of cDNA coding HSP70 in cotton under heat stress Proc 1st International Conference of Punjab University on Recent innovations in Molecular Sciences; Organized by and held at Punjab University, Lahore Nov. 6-8, 2019
- Rashid B, **Batcho AA**, Sarwar MB, Jabbar B, Hassan S, Sajid M, and Tayyab Husnain (2019). Heat shock proteins (HSPs) gene: The future for heat stress tolerance in plant species Proc 1st International Conference of Punjab University on Recent innovations in Molecular Sciences; Organized by and held at Punjab University Lahore Nov. 6-8, 2019
- J. O. Nwogwugwu, **Batcho, A.A** and O. A. Osunlaja (2019) Small RNAs: Advancement in Agriculture and Alternative Approaches to Plant Disease Management in Africa. ASN 53rd Annual Conference Proceedings (Sub-Theme: Genetics, Plant Breeding & Biotechnology) Nigeria
- Hameed R, Ismail P, Ashraf R, **Batcho AA**, Hassan S, Rashid B and Sarwar MB (2018). Identification, characterization and expression of biotic and abiotic stress tolerant genes and their expression in *Gossypium hirsutum* (cotton). Proc 3rd International symposium on Advances in Molecular Biology of Plants and Health Sciences; Organized by and held at CEMB Lahore Dec. 19-21, 2018
- Batcho AA**, Sarwar MB, Tariq L, Hameed R, Hassan S, Rashid B and Tayyab Husnain (2018). Identification, isolation and characterization of heat shock proteins (HSPs) gene family in *Agave sisalana* Proc 3rd International symposium on Advances in Molecular Biology of Plants and Health Sciences; Organized by and held at CEMB Lahore Dec. 19-21, 2018
- Batcho AA**, Sarwar MB., Leeza T., Hameed R., Sameera H., Rashid B. and Tayyab H. (2018) Cloning and expression analysis of heat-responsive gene encoding Heat shock protein 70 from *Agave sisalana* Proc 3rd of the poster presented at International symposium on Advances in Molecular Biology of Plants and Health Sciences; Organized by and held at CEMB Lahore Dec. 19-21, 2018
- Tariq L, **Batcho AA**, Sarwar MB, Jabbar B, Rashid B, Hassan S, Husmain T. (2018) In silico sequence analysis, homology modeling and functional annotation of mitochondrial zmhsp70. Proc 3rd International Conference on Biosciences (ICBS2018) held at Government College University Lahore May 9-11, 2018
- Koudahe, K., **Batcho, AA.**, & Hell, K. (2012). Pest and diseases of 16 local and exotic sweet-potato varieties in Benin and their agronomic characteristics. Proc 16th Triennial Symposium International Society for Tropical Root Crops Federal University of Agriculture, Abeokuta, Nigeria. 23rd - 28th Sept 2012