CURRICULUM VITAE

Name: Moses Akindele **ABIALA**
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Education

Degree	Discipline	Institution	Year
1. PhD	Plant-Microbe Interaction	University of Ibadan.	2013
2. M. Sc.	Microbiology (Plant-Microbe interaction)	University of Ibadan.	2008
3. B. Sc.	Microbiology	University of Ibadan	2002

International Research Experience

1. **Postdoctoral Research Fellow** (Dec. 5th, 2018 to June 2nd, 2019): TWAS-DBT, Government of India Postdoctoral Research Fellowship. Undertaken at Translational Crop Research Laboratory, Department of Bioscience and Bioengineering, India Institute of Technology, Guwahati, India.
   Work Experience: Deciphering the molecular mechanisms of interaction between rhizobacteria and cowpea towards adaptation to abiotic stress.
2. **Cooperation Visits Research Fellow** (Dec. 15th, 2014 to March 15th, 2015): TWAS-DFG Cooperation Visits Fellowship Award for scientists from sub-Saharan Africa. Undertaken at Molecular Phytopathology and Mycotoxins Research Laboratory, University of Goettingen, Germany.
   Work Experience: Molecular evidence of patho-toxigenic *Fusarium* species inhibiting seed germination and seedling growth of Tomato (*Lycopersicon esculentum*) in Nigeria.
3. **Visiting Research Scholar** (Aug 23rd, 2011-Oct. 31st, 2011): West Africa Research Association Residency Fellowship Award Grant. Undertaken at Molecular Environmental Plant Physiology Laboratory, Department of Biological Sciences, Kent State University, Kent, Ohio, Unites States of America (2011)….http://www.kent.edu/einside/artieledisplay.cfm.
   Work Experience: Molecular characterization of phytobeneficial rhizobacteria of maize isolated from Southwestern Nigeria.
4. **Research Fellow** (April 1st 2007- June, 30th, 2008): International Institute of Tropical Agriculture (IITA), Ibadan (CGIAR group), Nigeria Research Fellowship award (2007). Undertaken at Germplasm Seed and Plant Health Unit, IITA, Ibadan, Nigeria.
   Work Experience: Isolation, identification and in-vitro evaluation of biopesticides as an antagonist to *Mycosphaerella fijiensis* MORELET of Banana and Plantain. M. Sc Dissertation

Nigerian Work Experience

1. **2016 - to date:** Department of Biological Sciences, College of Basic and Applied Sciences, Mountain Top University, Prayer City, Ogun State, Nigeria
   Position (s): Lecturer1 (2016–2017), Senior Lecturer (2017–2020), Assoc. Professor (2020-till date)
   Research Focus: Molecular mechanisms that drives adaptation of crops to abiotic stress under the influence of pathogenic or beneficial soil microorganisms (fungi and/or bacteria).
   Courses Taught: Soil microbiology, Environmental Microbiology and General Microbiology
2. **2012-2016:** Department of Biological Sciences, Ajayi Crowther University, Nigeria
   Position (s): Assistant Lecturer (2012 – 2014), Lecturer II (2014-2016)

Research Focus: Effects of soil borne *Fusarium* pathotypes on tomato growth.

Courses Taught: Plant-Microbe Interactions, Soil and Environmental Microbiology

3. **2009-2012:** Department of Botany and Microbiology, University of Ibadan, Oyo State, Nigeria.

   Positions Held: Research/Teaching Assistant

   Research Focus: PhD research Project: Phyto-beneficial effects and molecular characterization of phytobeneficial rhizobacteria of maize (*Zea mays* L.).

   Courses Taught: Demonstration of microbiology practicals to undergraduate students

Selected Key Publications

1. Abiala, M. A., Kelechi Oleru , Taiwo Balogun , Manalisha Saharia , Bolanle Opere & Lingaraj Sahoo (2020): Soil borne *Fusarium solani* exhibited pathogenic effect on tomato cultivars in Nigeria. **Archives of Phytopathology and Plant Protection**, DOI: 10.1080/03235408.2020.1824338.

2. Akanmu, A. O., Sobowale, A. A., **Abiala, M. A**., Olawuyi, J. O, Odebode, A. C. 2020. Efficacy of biochar in the management of *Fusarium verticillioides* Sacc. Causing ear rot in *Zea mays* L.**Biotechnology Reports,** 26:1-12

3. Abiala, M. A, Abdelrahman M, Burritt DJ, Tran L -SP. 2018. Salt stress tolerance mechanisms and potential applications of legumes for sustainable reclamation of salt-degraded soils. **Land Degradation and Development,** 1– 11. https://doi.org/10.1002/ldr.3095.

4. B.O. Oyewole, O.J. Olawuyi, A.C. Odebode, **M.A. Abiala**. 2017. Influence of Arbuscular mycorrhiza fungi-AMF on drought tolerance and charcoal rot disease of cowpea. **Biotechnology Reports**, 14: 8–15. DOI: 10.1016/j.btre.2017.02.004.

5. Abiala, M. A, John Olayiwola, Oluwatoyin Babatunde, Olapeju Aiyelaagbe and Sunday Akinyemi. 2016. Evaluation of therapeutic potentials of plant extracts against poultry bacteria threatening public health. **BMC Complementary and Alternative Medicine**, 16:1-8. DOI: 10.1186/s12906-016-1399-z

6. Abiala, **M. A,** A. C. Odebode, S. F. Hsu, and C.B. Blackwood. 2015. Phytobeneficial properties of bacteria isolated from the rhizosphere of maize in southwestern Nigerian Soils. **Applied and Environmental Microbiology**, 81: 4736 – 4743. 3. DOI:10.1128/AEM.00570-15.

7. Abiala, M. A and Adegboyega. C. Odebode. 2015. Rhizospheric Enterobacter enhanced maize seedling health and growth, **Biocontrol Science and Technology,** 25:4, 359-372, DOI: 10.1080/09583157.2014.981248.

8. Abiala, M. A., Fatima, M. A & Adegboyega C. O. 2015. Antifungal effects of selected botanicals on fungal pathogens of watermelon fruit, **Archives of Phytopathology and Plant Protection.** 48:7, 569-577. DOI: 10.1080/03235408.2015.1075297.

Selected Conferences Attended and Paper Presented

- **Abiala M. A** (Invited Guest), Sanjib Kumar, Richa Srivastava and Lingaraj Sahoo. 2019. Harnessing stress tolerance for sustainable agriculture: Focus on African Cowpea. Assam Botany Congress (ABC-01) and International Conference on Plant Science, February 4-6, 2019, Guwahati, Assam, India
- **Abiala, M. A**, Rollwage, A., Katharina Pfohl, K, Karlovsky P. 2015. Pathogenicity and mycotoxin profiles of *Fusarium* isolated from a tomato field in Nigeria. 37th Mycotoxin workshop. June 1-3, 2015. Bratislava, Slovakia.
- **Abiala M. A,** and Adepoju, R. A. 2013. *Fusarium* species inhibited seed germination and seedling growth of tomato. Presented at the 3rd Nigerian Young Academy General Assembly/National Conference at Faculty of Science Lecture Theatre, University of Ibadan, Ibadan from 2nd – 4th of July, 2013.