

Contact Information

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Research Areas and Interests

Plant Genetics, Biological Nitrogen Fixation, Molecular Biology

Teaching

BIOL 1111K, BIOL 1112K, BIOL 2107K, BIOL 2108K, BIOL 4601K, BIOL 4701K, BIOL 2411K

Professional Experiences

Publications

- 1. Ze Peng, Huiqiong Chen, Lubin Tan, Hongmei Shu, Rajeev K Varshney, Zhekai Zhou, Zifan Zhao, Ziliang Luo, Annapurna Chitikineni, Liping Wang, James Maku, Yolanda López, Maria Gallo, Hai Zhou, Jianping Wang. (2021). Natural polymorphisms in a pair of NSP2 homoeologs can cause loss of nodulation in peanut. *Journal of Experimental Botany*.**
- 2. Maku J. O, Liping Wang, Fengxia Liu,2, Lixia Liu, Karen Kelley, Ze Peng and Jianping Wang. (2018). “Involvement of root hair during rhizobial invasion in cultivated peanut (*Arachis hypogaea* L.)”. *American Journal of Plant Science*.**
- 3. Ze Peng, Lubin Tan, Yolanda López, James Maku, Fengxia Liu, Hai Zhou, Yu-Chien Tseng, Xiping Yang, Yih-Feng Hsieh, Jian Song, Liping Wang, Barry Tillman, Maria Gallo, and Jianping Wang (2018). Morphological and genetic characterization of non-nodulating peanut recombinant inbred lines. *Crop Science*.**
- 4. Ze Peng, Fengxia Liu, Liping Wang, Hai Zhou, Dev Paudel, Lubin Tan, James Maku, Maria Gallo & Jianping Wang (2017). Transcriptome profiles reveal gene**

regulation of peanut (*Arachis hypogaea* L.) nodulation. *Scientific Reports* 7, Article number: 40066

5. Maku J.O, Gbadamosi A.E, Oke S.A (2014). Effect of some growth hormones on seed germination and seedling growth of *Tetrapleura tetraptera* (Thaub). *International Journal of Plant Science. International Journal of Plant Research.* 4(1): 36-42.
6. Maku J.O and Philip L.R Bonner (2014). Isolation and detection of ϵ -(γ -glutamyl) lysine isodipeptide in tissues of broad bean (*Vicia faba* var *Aquadulce*) seeds at different stages after development. *International Journal of Advanced Research.* Volume 2, Issue 2, 74-81.
7. Maku J. O, Gbadamosi A. E., Fadoju O. A. (2014). Germination and Seedling Growth of *Mansonia altissima* (A. Chev) in Response to Hormonal Treatment. *International Journal of Agriculture and Forestry* 4(4): 269274
8. Ajayi, A.T., Osekita, O.S., Maku, J.O. and Owoyemi, O.M. (2014). Colchicine-induced Variations in Cowpea (*Vigna unguiculate* L. Walp). *Research Journal of Agricultural and Environmental Science.* 1(1).
9. Olatunji D, Maku J.O, Odunmefun O.P (2012). Effect of pre-treatment on the germination and early seedling growth of *Acacia auriculiformis* Cunn. Ex. Benth. *African Journal of Plant Science* 6(4): 364-369.

Recent Grants

Awards and Honors

- i. Tertiary Education Trust Fund Fellowship 2012 -2013, Nigeria
- ii. Nottingham Trent University, International Student Scholarship 2012, United Kingdom
- iii. Tertiary Education Trust Fund Fellowship 2014 – 2018 , Nigeria
- iv. University of Florida Graduate Assistantship 2014 – 2018, USA
- v. William C. and Bertha M. Cornett Fellowship - Dean's scholarship (2017- 2018) – College of Agriculture and Life Science, University of Florida, U.S.A
- vi. Outstanding Achievement Award (2017) - University of Florida, U.S.A
- vii. Institute of Food and Agricultural Science (IFAS) Travel Award, (2017)- University of Florida U.S.A

Education

Doctor of Philosophy (Agronomy), University of Florida, USA

Masters of Sciences (Biotechnology), Nottingham Trent University, United Kingdom

Bachelors of Sciences (Plant Science and Biotechnology), AAUA, Nigeria