

# **OYEBANJI, OYETOLA OLUSEGUN**

Male, 34, Nigerian, Currently working at Kunming Institute of Botany, Chinese Academy of Sciences

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## **EDUCATIONAL BACKGROUND**

2017- 2021: PhD (Plant Molecular biology and biochemistry), Kunming Institute of Botany, Chinese Academy of Sciences, China.

2013-2014: MSc Botany, University of Lagos, Nigeria.

2005-2010: BSc Forestry management, Federal University of Agriculture, Nigeria.

## **ACADEMIC AWARD**

2017, Chinese Academy of Sciences-The World Academy of Sciences (CAS-TWAS) Ph. D. Scholar

2020, Excellent International Student Award (University of Chinese Academy of Sciences)

## **HIGHLIGHT OF TECHNICAL SKILLS**

Plant identification and herbarium techniques; terrestrial ecology; molecular and traditional taxonomy; database management; bioinformatics; evolutionary and biogeography analysis using the molecular data; self-sufficient knowledge in R and Linux environments; Species Distribution Modeling using (MAXENT); excellent problem solving skills; ability to independently conduct scientific research projects.

## **RESEARCH INTERESTS**

Biodiversity and Conservation of plant genetic resources; Plant Taxonomy and systematics (Traditional and molecular approach); Plant ecology; Ecological niche modelling; Diversification and biogeography; Genomics

## **PROFESSIONAL ASSOCIATION**

Society of Herbarium Curators, U. S. A.

## **GRANT**

2021 Postdoctoral targeted training grants in Yunnan Province, China (160, 000 Chinese yuan)

## **PROFESSIONAL SERVICES**

**Reviewer for International peer-reviewed journals:** African Journal of Ecology, West African Journal of Applied Ecology; Journal of Wildlife and Biodiversity; Biologia; Molecular Biology Reports

## DETAILS OF PUBLICATION

### *In prep*

1. **Oyetola Oyebanji**, Zhang Rong, Gregory Stull, Santosh Rana, Fabien Rahaingoson, De Zhu Li, Tingshuang Yi. Molecular Phylogeny and Spatio-temporal dynamics of the Millettoid/Phaseoloid clade (subfamily Papilionoideae, Leguminosae).
2. Emmanuel C. Chukwuma, **Oyetola Oyebanji**, Deborah M. Chukwuma, Emmanuel A. Ayodele, Kehinde A. Bolarinwa, Bashir B. Tihamiyu, and Sherif B. Adeyemi. Predicting the potential impact of environmental factors on the distribution of *Triplochyton scleroxylon* K. Schum (Sterculioideae, Malvaceae): an economically important tree species in Nigeria.
3. Fabien Rahaingoson, **Oyetola Oyebanji**, Gregory Stull, Rong Zhang, and Ting-Shuang Yi. A dated Phylogeny of the pantropical genus *Dalbergia* (Leguminosae: Papilionoideae) and its implications for historical biogeography (ready for submission)
4. Ogoma, C. A., Liu, J., Stull, G. W., **Oyebanji, O. O.**, Wambulwa, M. C., Monro, A. K., Milne, R. I., Li, D.-Z, Wu, Z.-Y. Deep Insights into the Plastome evolution and Phylogenetic relationships of the tribe Urticeae (family Urticaceae) (under revision, *Frontiers in Plant Science*)
5. Oluwaniyi Isaiah Adejobi, Rex Frimpong Anane, **Oyetola Oyebanji**, Sammy Muraguri, Di Wu, Aizhong Liu. Transcriptome identification, characterization, and phylogenomic analyses of cytochrome P450s gene family reveal candidate genes involved in biotic and abiotic stress response from the root of *Dedrobium officinale* (ready for submission).

### *Published articles*

1. **Oyebanji, O. O.**, Rong Zhang, Si -Yun Chen, and Ting-Shuang Yi (2020). New insights into the plastome evolution of the Millettoid/Phaseoloid Clade (Papilionoideae, Leguminosae). *Frontiers in Plant Science*, 11: 151. doi: 10.3389/fpls.2020.00151
2. **Oyebanji, O. O.**, Salako, G., Nneji L. M., Oladipo, S.O., Bolarinwa, K. A., Chukwuma E. C., Ayoola, A. O., Olagunju, T. E., Ighodalo, D. J., and Nneji, I. C. (2021). Impact of climate change on the spatial distribution of endemic legume species of the Guineo-Congolian forest, Africa. *Ecological Indicators* 122: 107282, <https://doi.org/10.1016/j.ecolind.2020.107282>
3. **Oyebanji, O.O.**, Chukwuma, E.C., Bolarinwa, K.A. et al. (2020). Re-evaluation of the phylogenetic relationships and species delimitation of two closely related families (Lamiaceae and Verbenaceae) using two DNA barcode markers. *Journal of Biosciences* 45: 96. <https://doi.org/10.1007/s12038-020-00061-2>
4. **Oyebanji, O. O.**, Bolarinwa, K.A., and Olowokudejo, J. D. (2020). Diversity and distribution patterns of aquatic macrophytes in selected ecosystems of south western Nigeria. *African Journal of Ecology*. 00: 1– 13. <https://doi.org/10.1111/aje.12717>
5. **Oyebanji O. O.**, and Adesalu T. A, (2018). Ethnobotany of Kabba-bunnu, Kogi state, Nigeria. *Nigerian Journal of Botany* **31**(1): 83-105.
6. **Oyebanji O. O.**, S. B. Adeyemi O. O. Agboola and K. Bolarinwa (2017). Taxonomy, ethnobotany and vegetation analysis of biodiversity in Dutse Local Government, Jigawa State, Nigeria. *FUW Trends in Science & Technology Journal*, **2**(2) pp. 679 – 683.
7. **Oyebanji O. O.**, Adedire M. O. and Rotowa T. O. (2012). The effect of organic and inorganic fertilizer on the growth of *Tectona grandis* Linn (Teak) seedlings. *African Journal of Bioscience*, **5**(2): 33-36.

8. Amenu, S.G., Wei, N., Wu, L., **Oyebanji O.**, Hu, G., Zhou Y., and Wang, Q. (2022). Phylogenomic and comparative analyses of Coffeae alliance (Rubiaceae): deep insights into phylogenetic relationships and plastome evolution. *BMC Plant Biol* 22, 88. <https://doi.org/10.1186/s12870-022-03480-5>
9. Sammy Muraguri, Wei Xu, Mark Chapman, Alice Muchugi, Adejobi Oluwaniyi, **Oyebanji, O. O.**, and Aizhong Liu (2020). Intraspecific variation within Castor bean (*Ricinus communis* L.) based on chloroplast genomes. *Industrial Crops & Products* 155: 112779. <https://doi.org/10.1016/j.indcrop.2020.112779>
10. Imade Y. Nsa, **Oyebanji, O. O.**, Eric E. Igbinijie, Ayodeji A. Odunsi (2021). Floral Distribution of a Sub-bituminous Coal Dumpsite in Enugu, Nigeria. *Frontiers in Ecology and Evolution* 9:649954. doi: 10.3389/fevo.2021.649954.
11. Han-Rui Bai, **Oyetola Oyebanji**, Rong Zhang, Ting-Shuang Yi, (2020). New insights into plastome structural diversification in subfamily Dialioideae (Leguminosae). *Plant Diversity*. <https://doi.org/10.1016/j.pld.2020.06.008>
12. Salako, G., **Oyebanji, O. O.**, and Howe G. T. Species Distribution Modeling predicts the impact of climate change on the distribution of some selected legumes in Cameroon and adjoining Nigeria border. *African Journal of Ecology*, 00,1–17. <https://doi.org/10.1111/aje.12915>
13. Peter Adegbenga Adeonipekun, Michael Babatunde Adebayo, and **Oyebanji O. O.** (2021). Spore characterization and its taxonomic significance in ferns from Lagos State, Nigeria. *Grana*, DOI: 10.1080/00173134.2020.1844794
14. Adeonipekun, P. A., **Oyebanji, O. O.** and Adebayo M. B. (2019): Impact of seasonal changes on the vegetation composition of some selected areas in Lagos state, Nigeria. *Mediterranean Botany* 40(1): 53-70. <http://dx.doi.org/10.5209/MBOT.60490>
15. Adeonipekun, P. A., **Oyebanji, O. O.**, Adebayo M. B. and Bamigbade O. S. (2019): Distribution and sporulation phenology of pteridophytes in Lagos state, Nigeria. *International Journal of Botany Studies* 4(2): 72-80.
16. Bolarinwa, K.A., **Oyebanji, O. O.** and Olowokudejo, J.D. (2018): Comparative morphology of leaf epidermis in the Genus *Ipomoea* (Convolvulaceae) in Southern Nigeria. *Annals of West University of Timișoara, series Biology*, 21 (1): 29-46
17. Adeyemi, S. B.; **Oyebanji, O. O.**, Afonja, A.I. and Shobowale, F.S. (2018). Phytochemical and nutritional composition of commonly used plants for the treatment of dysmenorrhoea in Ilorin, Kwara State. *Annals of West University of Timișoara, series Biology*, 21 (1):75-84.
18. Adeonipekun, P. A., **Oyebanji, O. O.**, Adeniyi, T. A. and Oduoye, O. T. (2018). An ecological assessment of forest trees in Lamba area of Gashaka Gumti National Park, Taraba state: Implications for biodiversity conservation and monitoring. *Nigerian Journal of Botany*. 31(1): 167-180.
19. Adeniyi, T. A., **Oyebanji, O. O.** and Adeonipekun P. A. (2016): Floral diversity in the wetlands of Ibeji-Lekki, Lagos, Nigeria. *Ife Journal of science* 18(3):729-737.
20. Olowokudejo J. D and **Oyebanji, O. O.** (2016). Floral diversity of the littoral vegetation of Southeastern Nigeria. *International Journal of Biodiversity and Conservation* 8(12):320-333.
21. Akinsoji, A., Adeniyi, T. A., **Oyebanji, O. O.**, and Eluwole, T. A. (2016). Evaluation and Flora diversity of Gashaka Gumti Gashaka Gumti Park-1, Gashaka Sector, Taraba state, Nigeria. *Ethiopian Journal of Environmental Studies and Management* 9(3): 713-737.

22. Akinsoji, A., Agboola, O. O. Adeonipekun, P. A., **Oyebanji, O. O.**, Adeniyi, T. A., and Ajibode, M. O. (2016). Occurrence and Distribution of Pteridophytes in parts of Lagos and Osun States. *Ife Journal of science*, **18**(2): 447-453.
23. Akinsoji, A., Adeniyi, T. A., **Oyebanji, O. O.** and Eluwole, T. A. (2016). Evaluation and Flora diversity of Gashaka Gumti Gashaka Gumti Park-1, Gashaka Sector, Taraba state, Nigeria. *Ethiopian Journal of Environmental Studies and Management* **9**(3): 713-737.
24. Adeyemi, S.B., Abidakun, O. Azeez, R.O., Chijindu P.C.I and **Oyebanji, O. O.** (2018): Phytochemical and Nutritional Composition of Commonly Used Medicinal Plants for the Treatment of Anaemia in Kwara State, Nigeria. *Annals of West University of Timișoara, series Biology*, **21**(2): 165-174.
25. Adeyemi, S. B, Oyedepo, B. A., **Oyebanji, O. O.**, Ogunsola, O. K., and Afonja, A. I. (2015): Ethnobotanical investigation of medicinal plants commonly used by the indigenous people of Omu Aran, Kwara state, Nigeria. *Jewel Journal of Scientific Research* 3(1): 101-110.
26. Adedokun, M. O., Soaga, J. A. O., Olawumi, A. T., **Oyebanji, O. O.** and Falana, S. A. (2013). Socio-economic contribution, Marketing and utilization of edible kola nut (*Cola acuminata* and *Cola nitida*) to rural women livelihood in Abeokuta, Nigeria. *International Journal of Molecular Ecology and Conservation* **2**(6): 32-38.
27. Nsa, I., Igbini E., Adeogun, O., Adekunle, A., Ilori, M., Adongbede, E., Sanni, R., Anorue, G., **Oyebanji, O. O.**, Odunsi, A., Koleosho, O., Ishiekwene, M., Omomowo, O., Kentan, E., Nnaka, S., Elechi, C., Oko, I., Gbadamosi, A., Odunbakun, S., Oyegbami, T., Olukoya, D., Oloruka, A., Yusuf, K. and Tijani, H. (2017). The Potential of Mycorrhizal Associations on A Coal Dumpsite. *Journal of Industrial and Research Technology*.
28. Opara Chinonso Ivan, Louis Hitler, Japari Joseph, **Oyebanji O. O.**, Akakuru Ozioma Udochukwu, Tonny Nyong'a Maraga, Pigweh Amos Isa (2018). Phytochemical Screening and Corrosion Inhibition of the Ethanolic Leave Extracts of *Gardenia aqualla* Stapf & Hutch In 1M H<sub>2</sub>SO<sub>4</sub> Acid Solution. *Advances in Materials*. **6**(1): 1-5.
29. Maitera O.N, Louis H, **Oyebanji O.O.**, Anumah A.O. (2018). Investigation of Tannin content in *Diospyros mespiliformis* Extract using Various Extraction Solvents. *Journal of Analytical & Pharmaceutical Research* **7**(2): 1-5. DOI: 10.15406/japlr.2018.07.00200.
30. Akakuru O.U, Louis H, **Oyebanji O.O.**, Ita BI, Amos PI, et al. (2018). Utility of Nanomedicine for Cancer Treatment. *Journal of Nanomed Nanotechnol* **9**: 481. doi:10.4172/2157-7439.1000481.
31. Isa P.A., Hitler L., Joseph I.A., **Oyebanji O. O.** (2017): Evaluation of Heavy Metals concentration in Selected Medicinal Plants (*Sterculia setigera* Del. and *Sclerocarya birrea* (A. rich.) Hochst) Collected from Bwabul Spring, Bambuka and Jalingo Low-lands, Taraba State. *Journal of Environmental Analytical Chemistry* **4**: 225. doi:10.4172/2380-2391.1000225