

OLALEKAN M. AMOO

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Profile:

Resourceful and determined personnel, enthusiastic, conscientious, and committed to efficiency with a well-developed team spirit.

Personal Details:

Nationality:	-	Nigerian
Gender:	-	Male
Language:	-	English (Excellent) Yoruba (Excellent) Chinese (Intermediate)
City and Country of Residence	-	Adelaide, Australia

Educational Qualifications and Academic Awards:

- ❖ **Doctor of Philosophy (Ph.D.) in Crop Breeding and Genetics** - **2024 – To Date**
School of Agriculture, Food and Wine, The University of Adelaide,
South Australia, Australia.
Thesis topic: Development of Novel Herbicide-Tolerant Wheat
Cultivars through Genome Editing.
Principal Supervisor: Prof. Jenny Mortimer
Co-Supervisor: Prof. Christopher Preston
Co-Supervisor: Dr. Jenna Malone
- ❖ **Master of Science (MSc.) in Crop Breeding and Genetics** - **2017 – 2020**
College of Plant Science and Technology, Huazhong Agricultural University,
Wuhan. China.
Thesis topic: CRISPR/CAS9-mediated knockout of *BRANCHED1* and
BRANCHED2 gene in rapeseed regulates shoot branching
(Thesis length 31, 453 words)
Supervisor: Prof. Fan Chuchuan
Awards: Outstanding Volunteer Assistant Award During COVID-19 outbreak in
Wuhan (2019 – 2020)
Bilateral Education Award Scholarship for 3 years Master Program in China
(September 2017 – July 2020).

- ❖ **Master of Science (MSc.) in Genetics (4.9/5.0)** - **2015 – 2017**
 Department of Plant Biology and Biotechnology, University of Benin,
 Benin-City, Edo state. Nigeria.
Thesis topic: Mutagenic effects of Sodium Azide and X-Ray exposure
 on seed germination, seedling growth, and grain quality
 of Rice (*Oryza sativa* L.) (Thesis length 20, 722 words)
Supervisor: Prof. Hakeem Olalekan Shittu
Award: Award of Excellence in Molecular Biology Course,
 2015/2016 Session (August 2016).

- ❖ **Bachelor of Science in Plant Science and Biotechnology** - **2009 – 2013**
 CGPA: 4.67/5.0 (First Class Hons)
 Department of Plant Science and Biotechnology, Adekunle Ajasin University,
 Akungba-Akoko. Ondo State.
Thesis topic: Allelopathic effects of Leaf and root extracts of *Tithonia*
diversifolia on the seed germination and seedling emergence
 of Rice (*Oryza sativa* L.), maize (*Zea mays*), and sorghum
 (*Sorghum bicolor*). (Thesis length 20, 722 words).
Supervisor: Prof. V. O. Olumekun
Awards: Best Graduating Student, Department of Plant Science
 and Biotechnology, Adekunle Ajasin University,
 Akungba – Akoko. (2012/ 2013 Academic Year).

Award of Excellence as the Best 400 Level Student,
 awarded by the National Association of Science Students,
 Adekunle Ajasin University Chapter (November 2012).

Winner of the Inaugural Professor C. O. Aboluwoye
 Interdepartmental National Association of Science
 Students Quiz Competition (May 2012).

Professional Affiliations and Memberships

- ❖ Australian Society of Plant Scientists (ASPS) - **2022 – To Date**
- ❖ Certified Project Manager - **2013 – To Date**
 (Affiliated member of the International Project Management Professionals)

Employment History:

- ❖ **Student Academic Progression Unit,**
University of Queensland. - **June 2022 – Oct. 2024**
Position held: Graduation Assistant (Casual)
Job Description: Involved in organising and ensuring the success of UQ graduation
 ceremony. Ushering of attendees and allocation of certificates to the
 graduates.
- ❖ **School of Biological Sciences, University of Queensland.** - **July 2022 – Oct. 2024**
Position held: Academic Tutor (Casual)
Job Description: Coordinating practical and tutorial classes for BIOL2203 Course

- ❖ **Raymos Guanah Farms, Asaba, Delta State.** - **July 2014 – March 2022**
Position held: Agronomist.
Job Description: Monitoring and supervising the cultivation of Rice from the land preparation stage to harvesting stage to regulate the produce of the farm as seeds. Performing various laboratory evaluations to maintain standard quality control of the processed Rice. I also coordinate the processing (cleaning, grading, parboiling, drying, and milling) of rice. Consultant in Crop production and Agro machinery.

- ❖ **National Agricultural Seeds Council, Ibusa, Asaba. Delta State.** - **July 2013 – 2014**
Position held: Seed Certification Officer
Job Description: Inspection of Field Crops to certify the farm, testing of seeds to ascertain it's germination percentage, and measurement of field hectarage using GPS.

Other Research Experience

- ❖ **National Horticultural Research Institute, Ibadan. Nigeria** - **Sept. – Dec. 2012**
Job Description: Budding, Nursery practices, landscaping, identification, and propagation of ornamental plants.

Volunteer Experience

- ✓ **Organisation:** International Student Volunteer Center - Huazhong Agricultural University (HZAU), Wuhan, China.
Position: Coordinator of the department of secretary
Duration: August 2018 – July 2020
Job description: Planning and organising social cultural and academic-related events for all International students; Liaison between the students and International student office staff; Organise monthly signature for all students under the CSC scholarship.

- ✓ Voluntary teaching of English language as a course to Chinese students and staff of HZAU
Duration: October 2019 – July 2020
Achievement: Successfully helped more than 50 Chinese students to improve their English speaking and reading proficiency.

- ✓ **Organisation:** Association of Nigerian Students in Wuhan, China
Position: Social Director
Duration: February 2019 – July 2020.

Technical Skills:

- ❖ **Plant Tissue Culture Techniques:** Media preparation, explant sterilisation, inoculation, sub-culturing and maintenance of explants, acclimatisation of transgenic plants in the greenhouse, and transplanting of plants.

- ❖ **Molecular Techniques:** CRISPR-Cas9 Genome Editing Technology, Agrobacterium Mediated Transformation, Gene cloning, Gene expression analysis, DNA and RNA extraction, Designing of HITOM specific primers, Detection of Mutation using HITOM

method, Spectrophotometric and microscopic analysis, PCR & RT-PCR, and Gel electrophoresis.

Core Skills:

- ❖ Creative, innovative, and Effective Communication skills
- ❖ Proficiency in Microsoft Office Tools, SPSS, and Other statistical tools
- ❖ Basic knowledge in R programming and Mapmaker 3.0/QTL software
- ❖ Well-developed ability to work as part of a team aiming to achieve set goals and committed to excellence
- ❖ Ability to work under pressure, with little or no supervision
- ❖ Analytical, teachable, focused, and highly adaptive to function effectively in a new environment

Training Experience:

- ❖ UNIQUEST; **2022 UQ Research Commercialisation Workshop**, [19th – 20th July 2022].
- ❖ Nature Research Academies; **Science Communication Training**, (23rd May 2019).
- ❖ National Agricultural Seeds Council; **Training on Seed Certification and Quality Control Activities for NYSC (Corp Member)**, [29th September – 2nd October 2014].
- ❖ National Agricultural Seeds Council; **Two-Day Orientation Training Course on Seed Certification/Quality Control [Seed Law Enforcement], Seed Industry and Seed Testing**, [29th – 30th January 2014].
- ❖ NYSC/MDGs War Against Poverty (WAP) **AGRO – ENTREPRENEURIAL SKILL TRAINING**, (15th – 22nd December 2013).
- ❖ National Reproductive Health and HIV/AIDS Prevention and Care Project Through the NYSC Scheme; **PEER EDUCATION TRAINING COURSE**, (1st – 7th July 2013).

Conferences/Seminars Attended

- ❖ **TropAg Conference 2022** (held at Brisbane Convention and Exhibition Centre, Australia, 31st October – 2nd November 2022).
- ❖ **ComBio 2022** (Organised by the Australian Society of Plant Scientists, held at Melbourne Convention and Exhibition Center, South Wharf, Melbourne, 27th - 30th September 2022).
- ❖ **Queensland Legume Symposium** (Organised by the QLD Alliance for Agriculture & Food Innovation-QAAFI, Custom House, Brisbane, 22nd July 2022).
- ❖ **inSTEM Conference** (Organised by the ARC Centre of Excellence for Engineered Quantum Systems, from 20th – 21st July 2022).
- ❖ **ARC CoE Retreat** (Organised by the ARC Center of Excellence for Plant Success in Nature and Agriculture, from May 30th – June 4th, 2022).
- ❖ **6th International Symposium on Genomics and Crop Genetic Improvement - Molecular Breeding** (Organised by the National Key Laboratory of Crop Genetic Improvement, Huazhong Agricultural University, Wuhan, China, from October 20th - 23rd, 2019).
- ❖ ICAR 2019; **The 30th International Conference on Arabidopsis Research** (Held in Wuhan, China, from June 16th - 21st, 2019).
- ❖ International College, Huazhong Agricultural University; **First Annual Academic Symposium for International Students** (January 6th, 2018).

Research Outputs:

Journal Articles

- ❖ **Olalekan Amoo**, 胡利民, 翟云孤, 范楚川, 周永明 (2022). 利用基因编辑技术研究 BRANCHED1 参与油菜分枝过程的调控 [J/OL]. 生物技术通报 . <https://doi.org/10.13560/j.cnki.biotech.bull.1985.2021-1344>.
- ❖ Li, H., Yu, K., **Amoo, O.**, Yu, Y., Guo, M., Deng, S., ... & Zhou, Y. (2022). Site-Directed Mutagenesis of the Carotenoid Isomerase Gene *BnaCRTISO* Alters the Color of Petals and Leaves in *Brassica napus* L. *Frontiers in plant science*, 13, 801456-801456. <https://www.frontiersin.org/articles/10.3389/fpls.2022.801456/full>
- ❖ Jiao, Y., Zhang, K., Cai, G., Yu, K., **Amoo, O.**, Han, S., ... & Zhou, Y. (2021). Fine mapping and candidate gene analysis of a major locus controlling ovule abortion and seed number per silique in *Brassica napus* L. *Theoretical and Applied Genetics*, 1-14. <https://doi.org/10.21203/rs.3.rs-189373/v1>.
- ❖ Ahmar, S., Zhai, Y., Huang, H., Yu, K., Khan, M.H.U., Shahid, M., Samad, R.A., Khan, S.U., **Amoo, O.**, Fan, C. and Zhou, Y., (2021). Development of mutants with varying flowering times by targeted editing of multiple SVP gene copies in *Brassica napus* L. *The Crop Journal*. <https://doi.org/10.1016/j.cj.2021.03.023>.
- ❖ Hu, L., **Amoo, O. M.**, Liu, Q., Cai, S., Zhu, M., Shen, X., ... & Zhou, Y. (2020). Precision genome engineering through cytidine base editing in rapeseed (*Brassica napus* L.). *Frontiers in Genome Editing*, 2, 15. <https://doi.org/10.3389/fgeed.2020.605768>.
- ❖ Khan, M.H., Hu, L., Zhu, M., Zhai, Y., Khan, S.U., Ahmar, S., **Amoo, O.**, Zhang, K., Fan, C. and Zhou, Y., (2020). Targeted mutagenesis of *EOD3* gene in *Brassica napus* L. regulates seed production. *Journal of Cellular Physiology*. <https://doi.org/10.1002/jcp.29986>
- ❖ Limin Hu, Hao Zhang, Yunxia Sun, Xiaoxiao Shen, **Olalekan Amoo**, Yuguang Wang, Chuchuan Fan, Yongming Zhou. (2020). *BnA10.RCO*, a homeobox gene, positively regulates leaf lobe formation in *Brassica napus* L., *Theoretical and Applied Genetics*. <https://doi.org/10.1007/s00122-020-03672-3>.
- ❖ Han, S., Khan, M.H.U., Zhu, K., Li, H., Zhu, M., **Amoo, O.**, Khan, S.U., Fan, C. and Zhou, Y., (2020). Identification and comprehensive analysis of the CLV3/ESR-related (CLE) gene family in *Brassica napus* L. *Plant Biology*. <https://doi.org/10.1111/plb.13117>.
- ❖ Zhai, Y., Cai, S., Hu, L., and **Amoo, O.** et al. (2019). CRISPR/Cas9-mediated genome editing reveals differences in the contribution of *INDEHISCENT* homologues to pod shatter resistance in *Brassica napus* L. *Theoretical and Applied Genetics* 132: 2111-2123. <https://doi.org/10.1007/s00122-019-03341-0>.
- ❖ Zhai, Yungu, Kaidi Yu, Shengli Cai, Limin Hu, **Olalekan Amoo**, Lei Xu, Yang Yang et al. (2019) "Targeted mutagenesis of BnTT8 homologs controls yellow seed coat development for effective oil production in *Brassica napus* L." *Plant Biotechnology Journal*. <https://doi.org/10.1111/pbi.13281>.
- ❖ Khan, Shahid Ullah, Jiao Yangmiao, Sheng Liu, Kunpeng Zhang, Muhammad Hafeez Ullah Khan, Yungu Zhai, **Amoo Olalekan**, Chuchuan Fan, and Yongming Zhou (2019). "Genome-wide association studies in the genetic dissection of ovule number, seed number, and seed weight in *Brassica napus* L." *Industrial Crops and Products* 142:111877. <https://doi.org/10.1016/j.indcrop.2019.111877>.

Conference Paper

- ❖ **Amoo, O.**, Shittu, H. O. and Omoregie, U. E. (2016). Effect of Sodium Azide and X-ray Exposure on the Germination of Rice (*Oryza sativa*). Presented at the 2nd University of Benin Annual Research Day Conference.

Research Grants and Scholarships

- ❖ Nigeria and China Bilateral Education Award Scholarship for 3 years Master's Program in China (September 2017 – July 2020).

REFEREES:

Dr Ismail Ibrahim Garba

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Dr Isaac Akefe

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