

Christopher Terseer Tarkaa

Department of Genetics,
University of Georgia,
Athens, GA 30602, United States

Email: christopher.tarkaa@uga.edu

[Github](#)

[LinkedIn](#)

EDUCATION

2025 - 2030 PhD Genetics
University of Georgia, United States
Supervisor: Professor Zachary Lewis

2019 - 2021 MSc Cell biology and genetics
University of Ibadan, Nigeria

2011 - 2016 BSc Biology
Benue State University, Nigeria

AWARDS/HONOURS

2022 Afrika Kommt Fellowship (€55,000)

2021 Inqaba Biotec Training Grant (₦100,000)

WORK EXPERIENCE

2025 - 2030 Graduate Research Assistant
University of Georgia, Athens, United States

2024 - 2025 Bioinformatician
Pan African University, Ibadan, Nigeria

2023 Discovery Research Strategy Fellow
Boehringer Ingelheim, Ingelheim, Germany

2022 - 2025 Founder/Researcher
Trailblazers Research, Nigeria

RESEARCH EXPERIENCE

2026 - Date Expressing single guide RNA constructs in *Neurospora crassa*.
PI: Zachary Lewis

2025 Genome editing using CRISPR-Cas 9 in *N. crassa*. PI: Zachary Lewis

2024 - 2025 Assembly and annotation of *Streptococcus albidoflavus* genome. PI: Adediji Adedapo

2021 - 2022 Uncovering the inhibitory potentials of *Phyllanthus nivosus* leaf and its bioactive compounds against Plasmodium lactate dehydrogenase for malaria therapy
PI: Titilayo Johnson

2021 Network pharmacology-based assessment of anti-inflammatory action of phytochemicals derived from *Nigella sativa* and *Moringa oleifera*
PI: Funmilayo Afolayan

KEY LABORATORY/ANALYSIS SKILLS

- DNA, RNA and Plasmid isolation
- PCR
- Transformation
- Western blotting
- Gibson cloning
- BASH, Python, R programming
- Omics data analysis
- Workflow Management (Nextflow)
- Version Control (Git)
- Containerization (Docker, Conda)

LANGUAGE SKILLS

- English
- German (A2)

PUBLICATIONS

Tarkaa, CT, Oyaniyi DA, Salaam, RA, Ebuh RP, Akangbe OA, Oladokun SE, Sowemimo RO, Ajayi, OF. "Network pharmacology-based approach to elucidate the molecular targets of *Curcuma longa* for treating breast cancer." *Precision Medicine Research*, vol. 5, no. 2, 2023. doi: 10.53388/PMR20230008.

Afolayan, FID, **Tarkaa CT**. "Network pharmacology-based assessment of anti-inflammatory action of phytochemicals derived from *Nigella sativa* and *Moringa oleifera*." *Drug Discovery*, vol. 17, 2023, e13dd1016.

Johnson, TO, Adegboyega AE, Johnson GI, Umedum NL, Bamidele OD, Elekan AO, **Tarkaa CT**, Mahe A, Abdulrahman A, Adeyemi OE, Okafor D, Yusuf AJ, Atewolara-Odule OC, Ogunmoye AO, Ishaya T. "Uncovering the inhibitory potentials of *Phyllanthus nivosus* leaf and its bioactive compounds against Plasmodium lactate dehydrogenase for malaria therapy." *Journal of Biomolecular Structure and Dynamics*, vol. 21, 2022, pp. 1-10. doi: 10.1080/07391102.2022.2146750.

PRESENTATIONS

7/2025 Elucidating the molecular targets of turmeric for breast cancer treatment using network pharmacology, molecular docking and molecular dynamics simulations. **Stem for Development Symposium.**