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PROFESSIONAL PROFILE

PhD candidate in Biological Sciences with over 5 years of experience in molecular parasitology, proteomics, and academic teaching. Proficient in mass spectrometry, advanced microscopy, and nanoparticle tracking of biological vesicles and organelles. Skilled in student mentorship, scientific data analysis, and effective science communication. Demonstrates strong research independence, technical expertise, and a commitment to advancing global health through innovative research.

EDUCATION

PhD Biological Sciences: Aberystwyth University (AU), UK **2022- Present**

- **Thesis:** Is it a Fluke or is it Reproducible: Understanding Isolate Variation in *Fasciola hepatica* for Diagnostic Potential.

M.Tech Applied Parasitology | CGPA 4.69/5.00: Federal University of Technology, Akure (FUTA), Ondo State, Nigeria **2018-2021**

- **Project:** Prevalence of Ecto and Gastrointestinal Parasites of *Hemidactylus frenatus* (Schlegel) in Akure North Local Government Area of Ondo State.

B.Tech Biology | CGPA 4.67/5.00: FUTA **2011-2016**

- **Project:** The Antiplasmodial Potential of Ethanolic and Decoction Extract of Mango (*Mangifera indica* L.) Leaves on *Plasmodium berghei* in Albino Mice.

RESEARCH SKILLS

- **Proteomics and Molecular Characterization:** Proficient in AFC-SEC, LC-MS, LAP-MALDI MS, HPLC and nanoparticle tracking for the analysis of vesicles and subcellular organelles.
- **Microscopy:** Experienced in Transmission Electron Microscopy (TEM) and light microscopy for structural and morphological analysis.
- **Data Analysis and Bioinformatics:** Competent in using Proteome Discoverer, MASCOT, Metaboloanalyst, GraphPad Prism, and SPSS for statistical and molecular data interpretation.
- **Research Tools and Software:** Proficient with EndNote, BioEdit, Canvas, Origin lab and the Microsoft Office Suite for reference management, sequence analysis, and presentation design.
- **Laboratory Standards:** Knowledgeable in laboratory quality assurance/quality control (QA/QC) procedures and green lab practices to promote safety and sustainability.

CAREER HISTORY

Demonstrator, Department of Life Sciences, AU **2022-Present**

- Facilitate tutorials and practical sessions in genetics, parasitology, biochemistry, and biostatistics for over 50 undergraduate students.
- Designed and implemented teaching strategies in collaboration with faculty to improve learning outcomes.
- Contributed to laboratory efficiency by developing and applying new protocols, optimizing reagent use, and maintaining equipment functionality.

Assistant Lecturer, Biology Dept, FUTA **2021-Present**

- Delivered lectures to over 200 students across four undergraduate courses: BIO 204 (Biological Techniques), BIO 209 (Invertebrates), BIO 319 (General Ecology), and BIO 327 (General Parasitology).
- Served as academic advisor to 101 students and coordinated alumni engagement for over 2,000 graduates.
- Provided academic and career mentorship, fostering student development and retention.

- Managed daily lab operations including maintenance, inventory, and safety compliance.
- Assisted in manuscript preparation and project proposal development.
- Demonstrated microscopy and spectrophotometry techniques to 196 students.
- Supervised student labs in scientific photography and data presentation for 47 students.
- Invigilated semester exams for approximately 1,700 undergraduate students.

KEY ACHIEVEMENT

- BBRSC FoodBioSystems DTP Scholarship, 2022 -2026
- £5,950 Supplementary Award, FoodBioSystems DTP, 2024
- £1,200 Travels Award, FoodBioSystems DTP, 2024
- £200 pounds Student Travel Award British Society of Parasitology (BSP), 2024
- £200 Student Travel Award British Society of Parasitology (BSP), 2023
- £1465 Aberystwyth University Black Bullion Award, 2023
- Award of recognition of Academic Excellence: General Overseer Award of excellence by The Gospel Faith Mission International (GOFAMINT), Ogumakin, Ogun State, Nigeria 2017.
- Dean's list Award seven times out of ten Department of Biology, Federal University of Technology, Akure (FUTA), Ondo State, Nigeria 2011-2016.

PUBLICATIONS

Articles

- **Babatunde, O. S.**, Olusi, T. A., Simon-Oke, I. A., David, M., Adejoh, B. and Olonisakin, A. A. (2025). Prevalence of Ecto- and Gastrointestinal Parasites of *Hemidactylus Frenatus* (Schlegel) in Akure North Local Government Area of Ondo State, Nigeria. *Journal of Applied Life Sciences International*. 28 (3):44-53. <https://doi.org/10.9734/jalsi/2025/v28i3689>.
- David, M. C., Olusi, T. A., Simon-Oke, I. A. and **Babatunde, O. S.** (2025). Survey of Ecto- and Gastrointestinal Parasites of Wild Cane Rats (*Thryonomys Swinderianus*) in Ifedore Local Government Area of Ondo State, Nigeria". *South Asian Journal of Parasitology* 8 (1):37-45. <https://doi.org/10.9734/sajp/2025/v8i1211>.
- Olusi, T. A., **Babatunde, O. S.**, and Adeniji, M. (2021). Survey of the African Giant Land Snail (*Archachatina marginata*), Intermediate Host of Intestinal Parasites in Akure Metropolis, Ondo State. *Bulletin of the National Research Centre*. 45(183). <https://doi.org/10.1186/s42269-021-00647-2>
- Odiyi, B. O., Giwa, G. O., Abiya, S. E., and **Babatunde, O. S.** (2020). Effects of Crude Oil Pollution on the Morphology, Growth, and Heavy Metal Content of Maize (*Zea mays Linn.*). *Journal of Applied Science and Environmental Management*. 24(1): 119–125. <https://dx.doi.org/10.4314/jasem.v24i1.17>

Poster Presentation

- **Babatunde, O. S.**, Phillips, H., Leonard, J., Fisher, M., Brophy, P. M., Cramer, R. and Morphew, R. M. Isolating the Isolate: Proteomic Profiling of *Fasciola hepatica* Based on Their Triclabendazole Susceptibility Status. Poster Presented at the 2025 British Society for Proteomic Research (BSPR).
- **Babatunde, O. S.**, Simon-Oke, I. A., Idowu, I. I., Adejoh, B., and Olonisakin, A. A. (2024). Assessment of geohelminth contamination and vector abundance at selected refuse dumpsites in Akure Metropolis, Nigeria. Paper presented at the 48th Annual Conference of the Parasitology and Public Health Society of Nigeria (PPSN). DOI: 10.13140/RG.2.2.29343.57760.
- **Babatunde, O. S.**, Leonard, J., Steele, C., Cramer, R., Fisher, M., Brophy, P. M., and Morphew, R. M. (2024). *Isolating the isolate: Proteomic profiling of triclabendazole-susceptible and resistant isolates of Fasciola hepatica*. Paper presented at the British Society of Parasitology 2024 Spring Conference. DOI: 10.13140/RG.2.2.28132.18560.
- **Babatunde, O. S.**, Leonard, J., Steele, C., Cramer, R., Fisher, M., Brophy, P. M., and Morphew, R. M. (2023). *Is it a Fluke or is it Reproducible? Isolate Variation in the Liver Fluke Fasciola hepatica*. Paper presented at the British Society of Parasitology 2023 Spring Conference.
- **Babatunde, O. S.**, Olusi, T. A., Simon-Oke, I. A., and David, M. (2021). *Prevalence of Ecto and Gastrointestinal Parasites of Hemidactylus frenatus (Schlegel) in Akure North Local Government*

PROFESSIONAL DEVELOPMENT

Associate Fellow Higher Education Academy,

Teaching for Postgraduate Student, Aberystwyth University (TPAU), UK (2024-2025)

- Delivered 20 hours of postgraduate-level teaching
- Completed a Continuing Professional Development (CPD) course focused on inclusive and reflective teaching practices.
- Produced a critical reflective portfolio aligned with UKPSF (UK Professional Standards Framework).

ConnectED Pathway,

Aberystwyth University, UK (2024-2025)

- Advanced training in educational leadership, student development, and research collaboration.
- Strengthened expertise in fostering partnerships and supporting educational initiatives.

VOLUNTEER EXPERIENCE

Royal Society of Tropical Medicine and Hygiene (RSTMH) Student Ambassador 2024-Present

- Established a vibrant student chapter at Aberystwyth University, fostering a hub for discussions, seminars, and collaborations on tropical medicine.
- Organized awareness campaigns, workshops, and outreach initiatives to educate students and the wider community about neglected tropical diseases (NTDs).

PhD Student Representative for Faculty of Life Sciences, AU 2022-2024

- Represented the interests and concerns of PhD students within the Department of Life Sciences at departmental meetings and university-wide forums.
- Facilitated communication between students and faculty, ensuring that academic and administrative issues were addressed promptly.

Facilitator, Climate Action Group, PIBCID and ActionAid, Kogi State, Nigeria 2020-2022

- Facilitated and organized seminars on climate change to 700 youth and women across 3 communities in Kogi State, Nigeria.

Co-founder and I.T Analyst, Mentis Sine Limitibus Consult (MSLC), Nigeria 2019-present

- Served as the I.T personnel and co-presenter of academic enlightenment, verified scholarships, jobs, internships, training, and opportunities for personal, career and professional development of people over 10,000 coverage on telegram, twitter, and word press.

Research Associate and facilitator, PPSN and Sight Saver 2018-present

- Conducted a retrospective and prospective study on vectors in 4 South West States in Nigeria.
- Facilitated and organized outreaches and campaigns on Neglected tropical diseases in Southwest States in Nigeria.

Professional Membership:

- Parasitology and Public Health Society of Nigeria (PPSN)- PPSN/SW/2016/0444
- The British Society of Parasitology (BSP) - 8716
- The British Association for Veterinary Parasitology (BAVP)
- The Royal Society of Tropical Medicine and Hygiene - 0023766
- The British Society for Proteome Research - 00722

SKILLS, INTERESTS AND EXTRACURRICULAR ACTIVITIES

- **Language:** English (Fluent) and Yoruba (Native).
- **Interest:** Reading, music, singing, creative drawing.