CURRICULUM VITAE

A. **Personal Data**

1. Full name (Surname first):	SULAIMAN Kabirat Adedunmola
2. Details of Contact Address:	Department of Science Laboratory Technology, University of Medical Sciences, Odo-sida Campus, P.M.B. 536, Ondo City, Ondo State, Nigeria.
a. E-mail Addresses:	ksulaiman@unimed.edu.ng; adedunmola001@gmail.com
b. Mobile Phone Number:	+2348139396118; +2347061100913
3. Nationality:	Nigerian
4. Local Government and State of Origin:	Iwo, Osun State
5. Senatorial District:	Osun West
6. Permanent Home Address:	4, Ogedengbe Street, Okelaje Ondo, Ondo State
7. Marital Status	Married
8. Number and age(s) of Children	Two (12 and 2 years)
9. Next of Kin:	AC Goke Badmus
10. Details of Contact Address of Next of Kin:	4, Ogedengbe Street, Okelaje Ondo, Ondo State
a. E-mail Addresses:	moboladgebadmus@gmail.com
b. Mobile Phone Number:	+2348030464464
11. Date of Assumption of Duty:	1 July, 2024
12. Rank/status on First Appointment:	Assistant Lecturer/Permanent
13. Date of Last Promotion:	1 July, 2024
14. Present Status:	Assistant Lecturer
15. Present Salary, Grade Level and Step:	CONUASS 2 Step 1
16. Date of Confirmation of Appointment:	Nil

17. Faculty:	Science
18. Department:	Science Laboratory Technology
19. Academic scholarship links:	https://scholar.google.com/citations?user=6gN3AJcAAAAJ&hl=en https://orcid/org/0000-0003-1895-8033

B. Educational Institutions Attended with Dates

1. Higher Educational Institutions Attended with Dates:

Department	Institution	Dates
Biosciences and Biotechnology	University of Medical Sciences, Ondo State Nigeria	2022- Date
Zoology	University of Ibadan, Ibadan, Nigeria	2017-2019
Science, Technology and Mathematics Education	Osun State University, Osogbo. Osun State	2011-2015

2. Academic/Professional Qualifications and Distinctions Obtained with Dates:

Qualifications	Institutions	Distinctions (Dates)
M.Sc. Zoology (Cell Biology and Genetics)	University of Ibadan, Ibadan, Nigeria	MPhil/Ph.D.Grade (2019)
B.Sc. (B.Ed.) Education/Biology	Osun State University, Osogbo. Osun State	Second Class Upper Division (2015)

- **Ph.D. Molecular Parasitology - Ongoing (2022 - Date)**

Others

i. Training in Bio-python and R 2024
ii. Pedagogy Training for Academic Staff (PTAS) 2024
iii. International Veterinary Vaccinology Network (IVVN)/ASOP 2021 &2019
(Public speaking training and certificate of participation)

3. Professional Bodies Membership:

- International Veterinary Vaccinology Network (IVVN)
- Zoological Society of Nigeria

- Global Schistosomiasis Alliance

4. Other Distinctions and Awards with Dates

i. Research Grant

International Society for Infectious Diseases/Bill and Melinda Gate Foundation

(Research capacity building grant cohort 2024 - Value $7500) 2024

C. **Previous Work Experience**:

i. University of Medical Sciences (UNIMED), Ondo

- Academic and Research Scientist 2024 - Date

ii. Tropical Medicine and Diagnostic Development Unit,

Seeding Graduate Laboratory, UNIMED 2022 - Date

- Research Assistant

iii. Department of Zoology, University of Ibadan 2018-2019

- Laboratory Instructor

iv. As-Salam Kiddies Academy

- Teacher 2019

v. W.H.O (Ad-HOC) Illela Local Government, Sokoto State 2016

- Independent monitor (Polio and Meningitis campaign)

vi. Government Day Secondary School, Araba, Illela, Sokoto 2015-2016

- Biology, Basic Science and Mathematics teacher

D. **Work Experience in University of Medical Sciences, Ondo**

Current position: Assistant Lecturer

Roles/Responsibilities in the Department:

Level advisor for Microbiology Technology – 300 Level

Level advisor for Biology and Computational Biology Technology - 300 Level

Assistant time-table officer

Orientation programme coordinator

Courses Taught Within the Current Academic Session (B.SLT Degree)

i. B.SLT Degree (undergraduate)

COURSE CODE	COURSE TITLE	COURSE UNIT	UNITS TAUGHT
STB 322	General Parasitology	3/C	1½
STB 323	General Physiology	3/R	1½
STB 324	Systematic Biology	3/C	1
STB 327	Soil Ecology	2/C	1
STB 412	Population Genetics	2/C	1
STB 513	Vectors and Pests Management	3/C	1½
STB 514	Applied Parasitology	3/C	1½
STB 515	Biogeography	3/E	1½
STM 524/STB 525	Applied Vectors and Pest Management	3/R	1½
STB 599	Research Project	6/C	6
STB 590	Seminar	2/C	2

ii. **B.SLT Conversion**

COURSE CODE	COURSE TITLE	COURSE UNIT	Units taught
	2023/2024 academic session		
STB 322	General Parasitology	3/C	1½
STB 324	Biology of Tropical Parasite	3/R	1½
STB 327	Soil Ecology	2/C	1
STB 411	General Entomology	3/R	1½
STB 412	Population Genetics	2/C	1

STB 514	Applied Parasitology	3/C	1½
STB 528	Environmental Pollution Monitoring	2/E	1
STB 599	Research Project	6/C	3
STB 590	Seminar	2/C	1

2024/2025 academic session

STB 312	General Cytology	3/R	1½
STB 590	Seminar	2/C	1

Student Supervision within Current Session

SLT Department

i. Idowu Olabisi Caroline (B.SLT Degree)
ii. Fadowo Emmanuel (B.SLT Degree)
iii. Ayeku Ekundayo (B.SLT Conversion – co-supervision)

Biosciences and Biotechnology (Co-supervision)

i. Babalola Blessing Mercy (M.Sc. Molecular Parasitology)
ii. Shittu Moyosore (M.Sc. Plant Biotechnology)
iii. Okunade Temilade Atinuke (B.Sc. Biosciences and Biotechnology Degree)

E. Publications

Google scholar: https://scholar.google.com/citations?user=6gN3AJcAAAAJ&hl=en.
Research gate: https://www.researchgate.net/profile/Kabirat-Sulaiman?ev=hdr_xprf.

Thesis/Dissertation

i. B.Sc. Project: Teachers' perception of important pedagogical knowledge needed for effective teaching of biology in secondary schools in Oyo
ii. M.Sc. Dissertation: *In silico* docking studies of *Citrus limon, Pistia stratiotes* and *Allium sativum*

phytocompounds against wild type and mutated variants of some molecular targets in cancer

iii. Ph.D. Thesis: Immunoreactive protein markers from *Schistosoma* soluble egg antigens as diagnostic candidates for urogenital schistosomiasis (on-going)

On-going research:

i. Exploring diagnostic peptides from *Schistosoma* immunogenic proteins and metabolic markers as potential diagnostic candidates for schistosomiasis.

ii. Therapeutic potential of anti-inflammatory triterpenoid alpha and beta amyrin on critical developmental stages of *Schistosoma haematobium*

Article under review for publication

i. Oyetunde T. Oyeyemi, Elizabeth A. Fasomoyin, Tajudeen O. Oriade, **Kabirat A. Sulaiman,** Olabisi S. Babatunde, Ifeoluwa T. Oyeyemi. Enhanced molluscicidal activities of *Senna alata*-synthesized silver nanoparticles against adult and egg stages of *Lymnaea natalensis. Scientific Reports*. **July 2025**

Conferences attended with dates

i. Bypassing the hurdles of undefined crude antigen: Evaluating the potential of immunogenic fractions for diagnosis of schistosomiasis (Oral presentation at 2nd Faculty of Science conference, University of Medical Sciences, Ondo City, Ondo State, Nigeria- September 2024).

ii. Evaluation of *Schistosoma spp* soluble egg antigen (SEA) in non-invasive diagnosis of schistosomiasis [Poster presentation at the Royal Society of Tropical Medicine and Hygiene (RSTMH) Research in Progress West Africa 2024]'

iii. Leveraging cross-reaction in the diagnosis of schistosomiasis using *Schistosoma mansoni* and *S. haematobium* soluble egg antigen (Poster presentation at 1st Faculty of Science conference, University of Medical Sciences, Ondo City, Ondo State, Nigeria- September 2023)

iv. *In silico* molecular docking analysis of phytocompounds derived from *Citrus limon* and *Allium sativum* on breast cancer targets (Oral presentation at 1st Faculty of Science conference, Kola-Daisi University, Ibadan, Oyo State, Nigeria- February 2, 2022)

Articles that have already appeared in Learned Journals:

i. **Kabirat A. Sulaiman**, Tajudeen O. Oriade, Timothy Auta, Funmilayo I.D. Afolayan,

Alexander B. Odaibo, Rafaella F.Q. Grenfell, Ramzy G. Fatem, Oyetunde T. Oyeyemi. (2025) Serodiagnosis of urogenital schistosomiasis and profiling of immunoreactive protein(s) in Schistosoma haematobium soluble egg and adult worm antigens. *J Vector Borne Dis* 62**,** pp 187 – 194

ii. Tajudeen O. Oriade, **Kabirat A. Sulaiman**, Timothy Auta, Funmilayo I.D. Afolayan, Alexander B. Odaibo, Rafaella F.Q. Grenfell, Ramzy G. Fatem, Oyetunde T. Oyeyemi. (2025) Urine-Based ELISA for Non-Invasive Diagnosis of Urogenital Schistosomiasis: A Promising Tool for Resource-Limited Regions: Urine-based Schistosoma serological techniques. *Folia Microbiologica,*

iii. Adedayo O. Adesida, Tajudeen O. Oriade, **Kabirat A. Sulaiman**, Timothy Auta, Funmilayo I.D. Afolayan, Alexander B. Odaibo, Rafaella F.Q. Grenfell, Ramzy G. Fatem, Oyetunde T. Oyeyemi. (2024) Fasciola worm and egg-derived antigens: exploring their diagnostic potential for urogenital schistosomiasis in resource-limited endemic regions. *Asian Pacific Journal of Tropical Medicine.*

iv. Oyeyemi, I.T., Adesina, I.A., **Sulaiman, K.A.,** Ajayi, I.T., Nabofa, E.W. (2024) Ethanol extract of Nymphaea lotus Linn. inhibited carbon tetrachloride-induced fibrogenesis – in carbon tetrachloride intoxicated Wistar rats, *Clinical Phytoscience* 10:22

v. Afolayan, F.I.D., **Sulaiman, K.A**., Okunade W.T., (2020). Ethnobotanical survey of plants used in cancer therapy in Iwo and Ibadan south-western, Nigeria, *JPPRES*, pp. 1-22

Articles accepted for publication:

i. **Kabirat A. Sulaiman**, Tajudeen O. Oriade, Timothy Auta, Funmilayo I.D. Afolayan, Alexander B. Odaibo, Rafaella F.Q. Grenfell, Ramzy G. Fatem, Oyetunde T. Oyeyemi Diagnostic potential of *S. mansoni* egg and worm antigens for urogenital schistosomiasis in resource-limited settings. *Parasite Immunology.* **July 2025**

ii. Oyetunde T. Oyeyemi, Precious I. Catherine, Tajudeen O. Oriade, Adedayo O. Adesida, **Kabirat A. Sulaiman**, Timothy Auta, Funmilayo I.D. Afolayan, Alexander B. Odaibo, Rafaella F.Q. Grenfell, Ramzy G. Fatem, Enhancing serological diagnosis of urogenital schistosomiasis with admixtures of antigens from *Schistosoma* eggs and worms. *Journal of Infection in Developing Countries*. **June 2025**

F. **Professional Accomplishment**

Won international research grant

Establish research partnership with international collaborators

G. Contribution to Knowledge

My research work is primarily focused on improving diagnosis for urogenital schistosomiasis in Africa especially Nigeria. This infection which is induced by parasitic trematode of *Schistosoma haematobium* is second only to malaria in terms of morbidity and socioeconomic impact rate and it is predominantly found in sub-Saharan African countries. With the current rudimentary means of identification (microscopy) in most affected African regions coupled with difficulty in producing antigen from *S. haematobium* in large quantities and mixed/co-infection with two different species of the parasite has largely impeded control effort while other regions such as South Americas and Asia that contribute less significantly to the overall worldwide distribution of the infection with low prevalence of intestinal schistosomiasis are at an advanced stages of diagnostic development. My work is set to identify novel immunogenic molecules, diagnostic peptides and metabolic markers from *S. haematobium* and *S. mansoni* (the two most predominant human schistosome species) and other related trematodes as diagnostic candidates for schistosomiasis.

By combining the use of computational biology tools along with different molecular techniques, my research purpose has extended beyond diagnostic development to exploring therapeutic potential of naturally occurring small molecules and green-synthesized nanoparticles against different parasitic infections, neglected tropical diseases and non-communicable diseases (cancer and diabetes) and molluscs vectors. Discovering novel therapeutic agents against schistosomiasis especially is quite critical because praziquantel is the only drug currently approved for the treatment of the infection with the fear of resistance towards the looming. Computational drug discovery and design has been proven to be essential in accelerating the required time and cost-effectiveness of identifying lead candidates for drug and vaccine development. My earlier research work was able to keep record on the awareness of cancer diseases among individuals living in selected areas of southwestern Nigeria and the medicinal plants utilized locally for its treatment, while a number of lead candidates identified through GCMS analysis of the plants were determined through in silico docking study.

References

Professor Oyeyemi T. Oyeyemi
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Signature: 

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