

## CURRICULUM VITAE

### A. Personal Data:

1. Full Name (Surname first): MORONKEJI Akinpelu
2. Date of Birth: 12 December 1990
3. Details of Contact Address: Plot 5-7 Harmony Estate, Eleyele Ibadan.
  - a. E-mail Address(es): [amoronkeji@unimed.edu.ng](mailto:amoronkeji@unimed.edu.ng)  
[moronkejiakinpelu@yahoo.com](mailto:moronkejiakinpelu@yahoo.com)
  - b. Mobile Phone Number(s): 08166785420
4. Nationality: Nigerian
5. State of Origin: Osun
6. Local Government Area: Boripe
7. Permanent Home Address: Plot 5-7 Harmony Estate, Eleyele Ibadan.
8. Marital Status: Married
9. Number of Children and their Ages: Not applicable
10. Next of Kin: MORONKEJI Ayomi Tolulope
11. Details of Contact Address of Next of Kin:
  - a. E-mail Address(es): [ayomiajisegede@gmail.com](mailto:ayomiajisegede@gmail.com)
  - b. Mobile Phone Number(s): 09062825131
  - c. Permanent Home Address: Plot 5-7 Harmony Estate, Eleyele Ibadan
12. Date of Assumption of Duty: October 15 2020
13. Rank/Status of First Appointment: CONUASS 3 STEP 1
14. Present Status: Lecturer II
15. Date of Last Promotion: Not applicable
16. Present Salary, Grade Level and Step: #2,052,099.54, CONUASS 3 STEP 3
17. Date of Confirmation of Appointment: 15th October 2023
18. Faculty/Directorate: Allied Health Sciences
19. Department/Unit: Medical Laboratory Science

**B. Educational Background:**

**1. Higher Educational Institutions Attended with Dates**

<b>Qualification</b>	<b>Year</b>	<b>Awarding body</b>
Bachelor of Medical Laboratory Science (B.MLS).	2013	Achievers University, Owo, Ondo State, Nigeria.
Master of Science. (Histopathology/Cytopathology).	2019	University of Benin, Nigeria.
PhD (Histopathology/Cytopathology)	2024	University of Benin, Nigeria.

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

<b>Qualification</b>	<b>Year</b>	<b>Awarding body</b>
Bachelor of Medical Laboratory Science (B.MLS).	2013	Achievers University, Owo, Ondo State, Nigeria.
Associate Member of the Medical Laboratory Science Council of Nigeria.	2015	Medical Laboratory Science Council of Nigeria
Master of Science. (Histopathology/Cytopathology).	2019	University of Benin, Nigeria.
Fellow of Medical Laboratory Science Council of Nigeria	2022	Medical Laboratory Science Council of Nigeria
Certified Cytotechnologist CT (IAC) 13128.	2023	International Academy of Cytology.
PhD (Histopathology/Cytopathology)	2024	University of Benin, Nigeria.

**C. Work Experience with Dates:**

**1. Previous Work Experience outside the University System with Dates.**

- **Baptist Medical Centre Saki, Oyo State, Nigeria.**  
Appointment: Medical Laboratory Scientist, Clinical Laboratory Department, - September 2016- November 2018.
- **Ebonyi State Ministry of Health, (General Hospital Ishiagu)**  
Appointment: Medical laboratory scientist (NYSC), January 2014- October 2015.
- **Federal Medical Centre, Owo, Ondo State, Nigeria.**  
Appointment: Intern Medical Laboratory Scientist. November 2013- October 2014.

**2. Previous Work Experience in other Universities**

Not applicable

**3. Work Experience in University of Medical Sciences**

- Lecturer II- Department of Medical Laboratory Science      October 2020- till date.
- Medical Laboratory Scientist- Department of Oral and Maxillofacial Pathology, Radiology and Oral Medicine.      December 2018 – September 2020.

**4. Courses taught within the Current Academic Session**

- MLS 211 Introduction to MLS II. First semester 2022/2023 academic session.
- MLS 419 Biomedical Engineering. First semester 2022/2023 academic session.
- MLS 221 Introduction to MLS II. Second semester 2022/2023 academic session.
- MLS 322 Basic Histopathology. Second semester 2022/2023 academic session.
- MLS 426 Medical Laboratory Histopathology. Second semester 2022/2023 academic session.
- MLS 427 Human genetics and cytogenetics. Second semester 2022/2023 academic session.
- MLS 520 Medical Laboratory Histopathology III. Second semester 2022/2023 academic session.
- MLS 322 Basic Histopathology. Second semester 2022/2023 academic session.
- MLS 522 Laboratory Posting III (Final Professional Examination). Second Semester 2022/2023 academic session.
- MLS 523 Research Project. Second semester 2022/2023 academic session.

**5. Graduate Student Supervision within Current Session.**

- Not applicable

**6. Current Undergraduate Supervision.**

- MLS/19/1916. Mitigating potential of leaf extract of *Rauwolfia vomitoria* and *Aframomum melegueta* in cadmium-induced liver toxicity.
- MLS/19/2281. Administration of *Rauwolfia vomitoria* and *Aframomum melegueta* modulate NF-kappa Beta expression in the lungs of cadmium-chloride exposed rats.
- MLS/19/2283. Attenuation of cadmium chloride-induced oxidative damage in testes of adult male wistar rats administered with extract of *Rauwolfia vomitoria* and *Aframomum melegueta*
- MLS/19/2293. The role of modulatory anti-inflammatory potential of ethanol extract of *Rauwolfia vomitoria* and *Aframomum melegueta* in cadmium-induced cardiac oxidative damage.
- MLS/18/1744. *Rauwolfia vomitoria* and *Aframomum melegueta* modulate in heme oxygenase and NF-kappa beta expression in cadmium-induced kidney toxicity in adult male wistar rats.
- MLS/19/2303. Mitigating potential of *Rauwolfia vomitoria* and *Aframomum melegueta* on Cadmium-induced renal toxicity in adult male wistar rat.
- MLS/19/2312. 1L-1 $\beta$  expression in cadmium-induced cardiac toxicity in male wistar rats administered with *Rauwolfia vomitoria* and *Aframomum melegueta*

- viii. MLS/19/2318. Ameliorative potential effect of *Rauwolfia vomitoria* and *Aframomum melegueta* on cadmium-induced liver toxicity
- ix. MLS/19/2319. Ameliorative potential of *Rauwolfia vomitoria* and *Aframomum melegueta* in cadmium-induced oxidative damage in the lungs of adult male wistar rats.

**D. Membership of Professional Bodies:**

- IAC certified Cytotechnologist **CT (IAC) 13128**. International Academy of Cytology. 17th January 2023.
- Fellow of Medical Laboratory Science Council of Nigeria **RF(MLS)2373**. 30th March 2022.
- Associate Member of the Medical Laboratory Science Council of Nigeria **RA (MLS)19426**. 10th November 2015.
- Member, Society for Cellular Pathology Scientist of Nigeria (SCPSN). Society for Cellular Pathology Scientist of Nigeria. January 2021.

**E. Publications with Dates:**

**1. Thesis/Dissertation**

- i. Moronkeji A. (2012). Prevalence of cervicitis among women of childbearing age in Federal Medical Centre Owo. (B.MLS).
- ii. **Moronkeji A.** (2018). Evaluation of the effect of herbal preparation used in the treatment of malaria on the liver of adult wistar rats (M.Sc.).
- iii. **Moronkeji A.** (2021). Histomorphological and biochemical evaluation of *Azadirachta indica* on Liver and Kidney tissues of Plasmodium Berghei Infected wistar rats. (FMLSCN).
- iv. **Moronkeji A** (2024). Histopathological effect, genotoxic, and oxidative stress response to gasoline generator exhaust in adult wistar rats. (Ph.D. Dissertation).

**2. Books and Monographs Nil**

**3. Contribution to Books Nil**

**4. Published Journal Articles.**

- 1. Adjene J.O and **Moronkeji, A.** (2015). Effect of Long-term Consumption of kunu drink on the Body and brain weight of Adult Wistar Rats. *The Journal of Anatomical Sciences* 6(2):8-12.
- 2. **Akinpelu Moronkeji**, Eze Ikechi Gerald, Bejide Ronald Ayodele, Anwara Ogbonnaya Akpu, and Igunbor Michael Chuks (2018). Evaluation of herbal cocktail used in the treatment of malaria on liver tissue of adult Wistar rats. *Journal of Medicinal Plants Research* 12(28):508-521.
- 3. **Moronkeji Akinpelu**, Eze Ikechi Gerald, Igunbor Michael Chuks, Oyeleke Abioye Abiodun, Moronkeji Adebimpe Iyanuoluwa (2019). Berghei Infected Wistar Rats; the

- Role of Herbal Cocktail on the Spleen. *IOSR Journal of Pharmacy and Biological Sciences* 14 (5):21-30.
4. Ogbonnaya A. A, Humphery O. B, Edeogu C.O, **Moronkeji A.** (2019). Immunophenotyping of HIV patients co-infected with Mycobacterium Tuberculosis. *World Journal of Pharmaceutical Research* 8(10);110-124.
  5. **Moronkeji A**, Eze G.I, Igunbor M.C, Ogbonna A A, Moronkeji A.I (2019). Histomorphological and Biochemical Evaluation of Herbal Cocktail Used in Treating Malaria on Kidneys of Adult Wistar Rats. *International Journal of Advanced Research and Publications* 3(7); 57-66.
  6. Ogbonnaya A. A, Humphery O. B, Edeogu C.O, **Moronkeji A.** (2019). Glucose distribution of HIV patients co-infected with Mycobacterium Tuberculosis. *World Journal of Pharmaceutical Research* 8(10);125-138.
  7. Atere, Adedeji David, Faith Ajani Olumide, **Moronkeji Akinpelu**, Oluwaseun Ajibade, Victory, Osadolor Humphrey Benedo. (2021). Immunomodulatory response and serum level of neutrophil gelatinase-associated lipocalin (NGAL) as a marker of acute kidney injury in Wistar rats exposed to pyrethroids. *Journal of Cellular Biotechnology*. 7(2). 99-109.
  8. Atere Adedeji David, **Moronkeji Akinpelu**, Moronkeji Adebimpe Iyanuoluwa, Osadolor, Humphrey B (2021). Serum levels of inflammatory biomarkers, glycaemic control indices and leptin receptors expression in adult male Wistar rats exposed to Pyrethroids. *Journal of Cellular Biotechnology* 7 (1): 41-55.
  9. Oyeleke AA, Onaolapo AY, Onaolapo OJ, **Moronkeji A**, Folusho O. (2023). Coenzyme-Q10 and Omega-3 Fatty-Acid Ameliorates Catalepsy and Neuroinflammation in Haloperidol Induced Parkinson's Disease Mouse Model. *The Journal of Anatomical Sciences* 14 (1): 99-111.
  10. **Akinpelu Moronkeji**, Frederick O AKINBO, Solomon Matthias GAMDE, Temidayo Daniel ADENIYI, Abiodun Abioye OYELEKE, IDOWU-Aiye Faith (2023). Exploring the Protective Effects of Vitamin C and D against Phosphine-Induced Kidney Damage. *International Journal of Biological & Medical Research*. 14(4):7665-7668.
  11. **Akinpelu Moronkeji**, Frederick O AKINBO (2023). Assessment of Cardiac Histology and Hematological Parameters in Adult Male Wistar Rats Exposed to Exhaust Emissions from Gasoline Generators. *International Journal of Biological & Medical Research*.14(4): 7638-7642.
  12. **Akinpelu, M.**, Gamade, S. M., Akinbo, F., Adeniyi, T. D., Elizebeth, A. F., & Obeagu, E. I. (2023). Histopathological and Biochemical Effect of Vitamin C and D on Phosphine-Induced Hepatotoxicity in Wistar Rats. *Asian Journal of Dental and Health Sciences*, 3(2), 18-22.
  13. Adeniyi, T. D., **Moronkeji, A.**, & Ralph-Okhiria, O. F. (2023). Ascorbate and alpha-tocopherol mitigate toxic pathological changes in adult wistar rats exposed to cypermethrin. *Folia Medica Indonesiana* 59(4):391-399.
  14. **Akinpelu Moronkeji**, F., Akinbo, O., & Eze, G. I. (2023). Histopathological and Biochemical Investigations of Gasoline Generator Exhaust Exposure in Adult Male Wistar Rats. *Sokoto Journal of Medical Laboratory Science*, 8(4).

15. Adeniyi, T., **Moronkeji, A.**, Ekundina, V. (2023). Histological evaluation of the liver, kidney, and testes of adult male Wistar rats exposed to heavy metals-contaminated waterways. *Medical Laboratory Journal*, 17(5), 4-8.
16. Gamde, S. M., Ugwah-Oguejiofor, C. J., Garba, A., Avwioro, G. O., **Moronkeji, A.**, & Jimoh, A. A. (2023). Histologic and Biochemical Effect of Balanite aegyptiaca Fruit Extract on Alloxan-Induced Diabetes in Wistar Rats. *Ethiopian Journal of Health Sciences*, 33(3).
17. Temidayo Daniel Adeniyi, **Moronkeji Akinpelu**, Omokehinde Oseni Akinlami, Firdaws Oriade Alaga, Mofesola Mojisola Adenika, (2024). Evaluation of the Combined Extract of *Rauwolfia vomitoria* and *Aframomum melegueta* on the Kidney and Liver of Adult Male Wistar Rats. *Sokoto Journal of Medical Laboratory Science* 2024; 9(2): 203- 212.
18. Adeniyi, T., **Moronkeji, A.**, & Fikayomi, A. (2024). Histological and Biochemical Evaluation of the Protective Potential of Ascorbate and Alpha-Tocopherol against Cypermethrin-Induced Toxicity. *The Journal of Experimental Life Science*, 14(1), 33-39.
19. **Moronkeji, A.**, & Akinbo, F. (2024). Genotoxic Response and Histological Alterations in Rat Lungs Exposed to Gasoline Generator Exhaust: Genotoxic response to gasoline generator exhaust. *Sultan Qaboos University Journal for Science [SQUJS]*. 29(1),15-27.
20. **Akinpelu Moronkeji**, Adeniyi Temidayo, Akinlagbe Benita and Oladele Latifat. (2024). Methanolic leaf extract of *Vernonia amygdalina* mitigates cadmium-induced oxidative stress in the liver and kidney of adult male Wistar rats. *Egyptian Journal of Basic and Applied Sciences*. 11(1): 469–478.

## 5. Edited and Referred Conference Proceedings

1. **Moronkeji A.** and Akinbo F.O. (2023). Exposure to Gasoline Generator Exhaust Evokes an Oxido-inflammatory Response in the Liver and Kidneys of Adult Male Wistar Rats. AUCONAS CONFERENCE 2023. Organised by the College of Natural and Applied Sciences, Achievers University Owo, Ondo State, Nigeria. **6- 8 June 2023.**
2. **Moronkeji A.** and Akinbo F.O. (2023). Histopathological and Genotoxic Response to Gasoline Generator Exhaust in Adult Male Wistar Rats. AUCONAS CONFERENCE 2023. Organised by the College of Natural and Applied Sciences, Achievers University Owo, Ondo State, Nigeria. **6- 8 June 2023.**
3. OYELEKE, Abiodun Abioye; ONAOLAPO, Adejoke Yetunde; ONAOLAPO, Olakunle James; **MORONKEJI Akinpelu**; LAWAL, Ismail Adetayo; FOLUSHO Ojo (2023). Coenzyme-q10 and omega-3 fatty acid ameliorates catalepsy and Neuroinflammation in Parkinson's disease mouse model. Annual Scientific Conference of the Anatomical Society of Nigeria. FUOYE, 2022. **1-4 February 2023**
4. UDI, O.A; **MORONKEJI, A**; SHOJOBI, O.M. (2023). Ascorbic acid's impact on hepatotoxic wistar rats caused by Paracetamol. Annual Scientific Conference of the Anatomical Society of Nigeria. FUOYE, 2022.

## 6. Articles Accepted for Publication

1. Temidayo Adeniyi, **Akinpelu Moronkeji**, Omokehinde Akinlami, Molade James Kolawole, Jesufemi Oloye, Imoleayo Akogun. (2024). Attenuation of Cadmium Toxicity by Methanol Extracts of *Rauwolfia vomitoria* and *Aframomum melegueta* leaves. *Folia Medica Indonesiana*. In press.

## 7. Manuscript Submitted for Publication

- i. Cervical Lesion Evaluation in Females of Reproductive Age in Ondo Town, Nigeria
- ii. Ameliorative Potential of Methanolic Extracts of *Rauwolfia vomitoria* and *Aframomum melegueta* on Transforming Growth Factor- $\beta$  Expression in Cadmium Induced Acute Renal Toxicity.
- iii. Cymbopogon citratus: A Modulator of TNF- $\alpha$  and IL-10 in NSAID-Induced Hepatorenal Toxicity in Adult Wistar Rats
- iv. Oxidative stress response to gasoline generator exhaust emission in adult male wistar rats
- v. Safety appraisal of acute and sub-acute oral treatment with aqueous extract and methanolic fraction of *Aloe barbadensis* leaves.

8. Creative Work Nil

9. Technical Reports Nil

## 10. Paper and Work in progress

- i. Attenuation of cadmium chloride-induced oxidative damage in testes of adult male wistar rats administered with extract of *Rauwolfia vomitoria* and *Aframomum melegueta*.
- ii. The role of modulatory anti-inflammatory potential of ethanol extract of *Rauwolfia vomitoria* and *Aframomum melegueta* in cadmium-induced cardiac oxidative damage.

## F. Professional Accomplishment.

- Registered Fellow of Medical Laboratory Science Council of Nigeria RF(MLS)2373.  
30th March 2022.
- IAC certified Cytotechnologist **CT (IAC) 13128** by the International Academy of Cytology.  
17th January 2023.

## G. Conferences, Seminars and Workshops Attended with Dates

1. Professional development program organized by AMLSCN GalaxoSmith Pharmaceuticals (Webcast Benin City) **May 2016.**
2. Professional Development program, Department of Medical Laboratory Science, University of Benin **June 2016.**
3. Professional development program at FMC, Owo Ondo State. **December 2016.**
4. Annual Scientific Conference of the Association of Medical Laboratory Scientists of Nigeria (AMLSN) Ondo HMB/MOH Chapter. **August 2017.**
5. Nigerian National Code for Health Research Ethics of Centre of Bioethics and Research, Nigeria, and the University of Miami, Florida **August 2017.**

6. Viral Load Sample Collection and Management Training by APIN Public Health Initiatives. **March 2018**
7. Laboratory Biosafety and Biosecurity Training. **August 2018.**
8. Bioinformatics foundation training by the African Centre for Excellence for Genomics of Infectious Diseases (ACEGID). **December 2019.**  
Infection Prevention and Control (IPC) for Novel Coronavirus (COVID-19). By WHO Health Emergencies Programme (Online). **April 2020.**
9. UN Cares; HIV in the workplace (2020 update) by UNICEF (UN, UN Agencies and UNFPA). (Online) **April, 2020.**
10. African Society for Laboratory Medicine Fifth International Conference. **2021.**
11. Protection of Human Participants and Responsible Conduct of Research, National Health Research Ethics Committee, Nigeria. **June 2021.**
12. Current perspectives and new approaches in big data application and omics science in Africa: Economic opportunities and other health outcomes. Young Medical Laboratory Scientist forum (Southwest zone). **June 2021.**
13. Training course in Cytopathology by the Association of Medical Laboratory Scientists of Nigeria (AMLSN) and the Korean Association of Medical Technologists (KAMT). **2022.**  
CONAS conference 2023. Theme: Innovative strategies and novel research in science and technology: A transformation towards sustainable Economies and Societies".

***Papers presented.***

- **Moronkeji A.** and Akinbo F.O. (2023). Exposure to Gasoline Generator Exhaust Evokes an Oxido-inflammatory Response in the Liver and Kidneys of Adult Male Wistar Rats. AUCONAS CONFERENCE 2023. Organised by the College of Natural and Applied Sciences, Achievers University Owo, Ondo State, Nigeria. 6- 8 June 2023.
  - **Moronkeji A.** and Akinbo F.O. (2023). Histopathological and Genotoxic Response to Gasoline Generator Exhaust in Adult Male Wistar Rats. AUCONAS CONFERENCE 2023. Organised by the College of Natural and Applied Sciences, Achievers University Owo, Ondo State, Nigeria.
14. DNA barcoding techniques organised by the UNILAG-TETFund Project Team on DNA Barcoding of Endangered Tree Species in Nigeria. **May 2023.**

## **H. Current Research Activities**

- i. Administration of *Rauwolfia vomitoria* and *Aframomum melegueta* modulate NF-kappa Beta expression in the lungs of cadmium-chloride exposed rats.
- ii. Attenuation of cadmium chloride-induced oxidative damage in testes of adult male wistar rats administered with extract of *Rauwolfia vomitoria* and *Aframomum melegueta*.
- iii. The role of modulatory anti-inflammatory potential of ethanol extract of *Rauwolfia vomitoria* and *Aframomum melegueta* in cadmium-induced cardiac oxidative damage.
- iv. IL-1 $\beta$  expression in cadmium-induced cardiac toxicity in male wistar rats administered with *Rauwolfia vomitoria* and *Aframomum melegueta*.

## **I. Current Relevant Information**

### **1. Services within the Department**

- i. Level adviser for the 300 Level Medical Laboratory Science student.

ii. Departmental Examination Officer.

- |                                    |     |
|------------------------------------|-----|
| 1. Services within the Faculty     | Nil |
| 2. Services within the University  | Nil |
| 3. Services outside the University | Nil |

#### **J. Contributions to Knowledge.**

I have collaborated on and completed a few research projects with various colleagues in various research fields. A few contributions are listed below.

- i. The study on the evaluation of an herbal cocktail used in the treatment of malaria on the liver tissue of adult Wistar rats revealed that certain medicinal plants possess antiparasmodial potentials that could be exploited in malaria therapy.
- ii. Our study on the Histopathological and Biochemical Effect of Vitamin C and D on Phosphine-Induced Hepatotoxicity in Wistar Rats indicated that the combined activities of Vitamin C and D supplementation can improve the antioxidant defence system and histology of the liver in phosphine poisoning.
- iii. The published article on Serum levels of inflammatory biomarkers, glycemic control indices and leptin receptors expression in adult male Wistar rats exposed to pyrethroids indicated that pyrethroids exposure may disrupt carbohydrate and lipid metabolism by raising the risk of obesity among the exposed groups.
- iv. The study on the Histologic and Biochemical Effect of *Balanite aegyptiaca* Fruit Extract on Alloxan-Induced Diabetes in Wistar Rats revealed that *Balanites aegyptiaca* phytochemicals reduced blood glucose levels and improve the histology of the liver, kidney, pancreas, and testis of diabetic rats.
- v. Our article on the Immunomodulatory response and serum level of neutrophil gelatinase-associated lipocalin (NGAL) as a marker of acute kidney injury in wistar rats exposed to pyrethroids indicated that pyrethroids can cause oxidative stress, deplete antioxidant levels, nephrotoxicity, and may modulate both humoral and cellular immune functions. We also established that NGAL could be used as a sensitive diagnostic tool and early biomarker for acute kidney injury (AKI).
- vi. We evaluated the glucose distribution of HIV patients co-infected with *Mycobacterium Tuberculosis* while also documenting the Immunophenotyping of HIV patients co-infected with *Mycobacterium tuberculosis* among individuals visiting the Federal Medical Centre Ido-Ekiti, Nigeria.

Signature: ..... Date: .....