

# Abah Moses Adondua

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## CONTACT

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## INFORMATION

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**RESEARCHGATE LINK:** <https://www.researchgate.net/profile/Moses-Abah-2>

**GOOGLE SCHOLARLINK:** [https://scholar.google.com/citations?user=D\\_FVZ7sAAAAJ&hl=en](https://scholar.google.com/citations?user=D_FVZ7sAAAAJ&hl=en)

## RESEARCH INTEREST

Molecular Biology, Genetic Engineering, Cancer Biology, Enzymology and Protein Chemistry, Environmental Biochemistry and Toxicology

## EDUCATION

Master of Science (Biochemistry)  
Federal University Wukari, Taraba State, Nigeria.

Date: December, 2022.

**Weighted Average Mark:** 70.48%/100% (4.51/5.00; 3.70/4.00)

**Thesis:** Effect of  $\text{Co}^{2+}$  and  $\text{Ni}^{2+}$  on Low-Molecular Weight Protein Tyrosine Phosphatase (LMW-PTP) (Mouse Model) Activity

**Supervisor:** Professor Igunnu Adetoyin

**Outcome:**  $\text{Co}^{2+}$  activates LMW-PTP activity in a concentration dependent manner.  $\text{Ni}^{2+}$  activates LMW-PTP activity in a concentration dependent manner.  $\text{Co}^{2+}$  exerts its activatory effect on LMW-PTP by reducing the  $K_m$  value of the enzyme. The presence of 5mM  $\text{Co}^{2+}$  also lowered the value of  $V_{max}$  by 2-fold. The presence of 5mM  $\text{Ni}^{2+}$  also lowered the value of  $V_{max}$  slightly. The interactive effect of  $\text{Co}^{2+}$  and  $\text{Ni}^{2+}$  dramatically increases the activity of LMW-PTP. The major amino acid residues that  $\text{Co}^{2+}$  and  $\text{Ni}^{2+}$  interact with upon binding LMW-PTP are (GLU-60, ASP-56, ASP-135) and (ASP-137, GLU-139, ASN-134) respectively.  $\text{Co}^{2+}$  has a higher binding affinity (1.077) than  $\text{Ni}^{2+}$  ion (0.956) for LMW-PTP. In conclusion, findings from this study revealed that the interactive effect of  $\text{Co}^{2+}$  and  $\text{Ni}^{2+}$  dramatically increases the activity of LMW-PTP thus, offering insight on the catalytic mechanism of the LMW-PTP which may be essential for its regulation

Bachelor of Science (Biochemistry)  
Federal University Wukari, Taraba State, Nigeria.

Date: August, 2016.

**CGPA:** 4.59/5.00 (3.74/4.00)

**Thesis:** Determination of Selected Pesticide Residues in Leafy Vegetables (*Amaranthus spinosus*) Samples Consumed in Donga, Taraba State, Nigeria

**Supervisor:** Professor Arowora Kayode Adebisi

**Outcome:** The study revealed that organochlorines were the most abundant pesticide residues found in the analyzed samples which confirmed the wide use of organochlorine pesticides in the study area. Also, it was observed that the concentrations of all the pesticide residues detected in the analyzed samples exceeded the Maximum Residue Limits (MRLs) and Acceptable Dietary Intake (ADI) set by FAO and WHO which confirmed extensive use and prevalence of pesticides in the study area, thus predisposing the populace in that region to the toxic effects of the pesticide residues detected.

## SELECTED RESEARCH EXPERIENCE

**Dr. Victoria's Lab, Department of Biochemistry, Federal University Wukari, Nigeria Date: 2024-2025**

Research Assistant, Supervisor: Dr. Victoria Ayo Ife

**Assessment of the Participation of Sulfhydryl Proteins in the Glutathione Peroxidase Mimicry of Diphenyl Diselenide in the Presence of Thiol**

- The antioxidant effect as well the possible involvement of proteins thiols in the in vitro GPx mimicry of DPDS was investigated;
- DPDS was observed to exert marked ( $p < 0.05$ ) inhibitory effect on Thiobarbituric acid reactive species (TBARS) production induced by  $Fe^{2+}$  and  $H_2O_2$  in rats' hepatic and cerebral tissues and this effect was significant ( $p < 0.05$ ) when compared with the control;
- DPDS inhibited the sulfhydryl enzymes, cerebral  $Na^+/K^+$ -ATPase and hepatic  $\delta$ -ALAD as well as TBARS production in the same reaction system.

**Dr. Victoria's Lab, Department of Biochemistry, Federal University Wukari, Nigeria Date: 2023-2024**

Research Assistant, Supervisor: Dr. Victoria Ayo Ife

**Effect of Lactuca Sativa Supplemented Diet on Poloxamer 407 Induced Hyperlipidemic Albino Rats (*Rattus norvegicus*)**

- The effect of a *Lactuca sativa* L. (lettuce) supplemented diet on Poloxamer 407-induced hyperlipidemic albino rats was investigated;
- Blood sample collection was carried out for the analysis of lipid profiles (High-Density Lipoprotein Cholesterol (HDL-C), Low-Density Lipoprotein Cholesterol (LDL-C), Very Low-Density Lipoprotein (VLDL), Triglycerides (TAG), and Total Cholesterol (TC)) and liver function parameters (ALP, ALT, AST, GGT, TP, ALB and GLB).
- The liver and brain tissues were analyzed for lipid peroxidation levels. Results showed that induction of P407 resulted in a higher body weight gain ( $p < 0.05$ ) compared to other treatments.

**Department of Biochemistry, Federal University Wukari, Nigeria**

**Date: 2022- 2023**

Research Assistant, Supervisor: Professor Arowora Kayode

**Effects of Green-Synthesized Silver Nanoparticles from *Azadirachta indica* on Growth Performance and Liver Function Parameters in Male Albino Rats**

- The effects of green synthesized silver nanoparticles (AgNPs) from *Azadirachta indica* aqueous leaf extract on growth performance and liver function parameters in male albino rats were evaluated;
- The result revealed that the absorption characteristic peak of the ultraviolet-visible spectrum of the silver nanoparticles synthesized was 450 nm;
- It was also observed that the growth performance of the experimental animals gave no significant difference in average weight gain, feed intake, and feed efficiency ratio;
- Synthesized silver nanoparticles from *A. indica* did not affect the level of some selected biochemical parameters such as ALT, ALP, TP AST, and Albumin significantly.

Department of Biochemistry, Federal University Wukari, Nigeria

Date: 2018-2019

Research Assistant, Supervisor: Professor Arowora Kayode

### Exploring the Testicular Modulating Potential of *Nigella sativa* and *Phoenix dactylifera* Compounds Targeting Human Sperm-Specific Isoform of Protein Kinase A (PKA) Catalytic Subunit $\alpha 2$ (4AE9): In Silico Approach for Oligospermia Treatment

- The testicular modulating potential of *Nigella sativa* and *Phoenix dactylifera* phytochemicals targeting human sperm-specific isoform of protein kinase A (PKA) catalytic subunit  $\alpha 2$ (4AE9) using in silico approach was explored;
- It was observed that Hesperidin had the highest docking score out of all the compounds in *Nigella sativa*. The docking scores for Hesperidin were -9.917kcal/mol, Epicatechin was -9.568kcal/mol, Alpha tocopherol was -9.345kcal/mol, Eicosadienoic Acid -9.257kcal/mol, whereas Quercetin was got a value of -9.442kcal/mol;
- It was revealed that LD<sub>50</sub> for the top five compounds in *Nigella sativa* from this investigation varied from 159 to 12000mg/kg.

Department of Biochemistry, Federal University Wukari, Nigeria

Date: 2017-2018

Research Assistant, Supervisor: Professor Arowora Kayode

### Molecular Characterization and Microbial Diversity in Anthracene-Spiked Diesel Contaminated Soil and its Effect on Bioremediation

- The study employed molecular tools in identifying and determining the diversity of soil bacteria in diesel-contaminated sites obtained from a Generator Power house located at Lagos State University (LASU), Ojo Campus, Lagos;
- Genomic DNA was extracted from the spiked soil samples and used for phylogenetic studies and Real-time PCR amplification. Amplification of the 16S rRNA gene was carried out using universal primers, 341F-GC and 907R;
- The effect of the anthracene was seen in the brightness of the amplicons of spiked contaminated site, showing the presence of anthracene degrading microorganisms in the diesel-contaminated site.

### SELECTED PUBLICATIONS

1. Ale, E.M., Kade, I.J., Timothy, M.J, **Abah, M.A** *et al.* Assessment of the participation of sulfhydryl proteins in the glutathione peroxidase mimicry of diphenyl diselenide in the presence of thiol alkylating agent. *Sci Rep* **15**, 17482 (2025). <https://doi.org/10.1038/s41598-024-77767-y>
2. Ife AV, **Abah MA**, Moranyo AE, et al. Effect of *Cucumis callosus* fruit extract on the liver function of DMBA-induced mammary cancer in female albino wistar rats. *Int J Complement Alt Med*. 2024;17(6):255–261.
3. **Moses A. Abah**, Oluwateniola D. Fakunle, Micheal A.Oladosu, Taiwo D. Osibanjo, Ejikeme P.Igwe. (2025). Exploring the Testicular Modulating Potential of *Nigella sativa* and *Phoenix dactylifera* Compounds Targeting Human Sperm-Specific Isoform of Protein Kinase A (PKA) Catalytic Subunit  $\alpha 2$ (4AE9): *In Silico* Approach for Oligospermia Treatment, *Journal of Bio-Med and Clinical Research*, RPC Publisher,2(1); DOI:<https://www.doi.org/rpc/2025/rpc.jbmcr/00287>
4. **Abah M.A**, Akacha J. Richard, Oladosu M. Abimbola, Oderanti M. Olayemi,Agbanigo B. Sunday. (2025). The Effect of Cefuroxime on Aquatic Macrophyte (*LemnaMinor*) and Algae (*Scenedesmus Sp.*), *Journal of Medical Discoveries*, RPC Publisher, 2(1); DOI:<https://www.doi.org/rpc/2025/rpc.jmd/00290>
5. Saad A, Ameen Olanrewaju A, Ahmed Funsho A, **Abah, M.A.** Antidiabetic Effect of *Chrysophyllum albidum* Pulp Extract on Streptozotocin-Induced Diabetic Rats. *Curre Res Diabetes & Obes J* 2025; 18(1): 555976.

6. Adesanya, T., Micheal. A. Oladosu, **Moses. A. Abah**, Miriam. N.Igwo-Ezikpe, Babatunde A. Adedeji, Rapheal A.Afuape, Ejikeme.P. Igwe, Adutwum. E. Aning-Dei,Biola.R. Adebayo, Okechukwu.E. Mbaeze, Sarah. O.Julius, S. Kaura, Molecular Characterization and Microbial Diversity in Anthracene-Spiked Diesel Contaminated Soil and its Effect on Bioremediation, Proceedings of the International Academy of Sciences, 2(1); DOI:<https://www.doi.org/rpc/2025/rpc.pias/0028>
7. Oladosu, M.A., **Abah, M.A.**, Aghworo, E.M., Justina, O.D., Oluwaseyi, A.P., Farinde, T.D., Farinde, O.N., Osaro, N.O., Ighodaro, F.U., Onyeoche, A.S., Kennedy, Z. (2025). Toxicity Assessment of *Allium sativa* and *Zingiber officinale* using *in vivo* and *in silico* Approaches in Mice. *Trends in Pharmacology and Toxicology*, 1(1), 1-11. <https://doi.org/10.17311/tpt.2025.1.11>
8. Oladele Habeeb Temitope, Abubakar Fatimah Aluko, Oladosu Micheal Abimbola, Moses Adondua Abah\*, NnanyereugoChinelo Emmanuella, et al. Protective Effect of Curcuma Longa-Honey and Allium Sativum-Zingiber Officinale-Honey Combinationson Hematological Parameters in Rats Induced with Paracetamol Toxicity. Am J Biomed Sci & Res. 2025 26(6) AJBSR.MS.ID.003491
9. **Moses Adondua Abah.**, et al.“Effect of Green Synthesized Sil-ver Nanoparticles from OrangePeels on Growth Performanceand Liver Function Parametersof Male Albino Rats". PriMeraScientific Surgical Research and Practice 5.5 (2025): 03-14
10. **Abah MA**, et al. Comparative Biochemical and Pharmacological Assessment of Expired and Unexpired Diclofenac on Egg Albumin-Induced Inflammation in Wistar Rats. Curr Trends Pharma Clinical Trials2025, 8(1): 180095.
11. A. David Chinonso, Kayode, A. Adebisi, **Adondua, M. Abah**, and Chinekwu, U. Kenneth, [“Biochemistry of Traditional Herbal Compounds and their Molecular Targets”](#), *Pharmacognosy Reviews*, vol. 19, no. 37, pp. 83-90, 2025.
12. Anih, D.C., Arowora, A.K., **Abah, M.A.**, Ugwuoke, K.C. (2025). Biochemically Active Metabolites of Gut Bacteria: Their Influence on Host Metabolism, Neurotransmission, and Immunity. *Science International*, 13(1), 46-57. <https://doi.org/10.17311/sciintl.2025.46.57>.
13. Anih, D.C., Yakubu, O.E., Arowora, A.K., Abah, M.A., Chinekwu, U.K. (2025). Biochemical Mechanisms of Sleep Regulation. *Science International*, 13(1), 35-45. <https://doi.org/10.17311/sciintl.2025.35.45>
14. Micheal. A. Oladosu, Titilola. A. Samuel, Taiwo. D. Osibanjo, **Moses.A. Abah**, Abiodun.W. Oshireku, Aleshe.S. Olayinka, Fakunle. O. Daniel, Taofeek. A.Sikiru, Ephraim. F. Chua, Ejikeme. P Igwe, Okabeonye. S. Agbo, Olufemi. A. Adedayo, Odimgbe. E. Izudike, Olugbenga. O. Oluwalore, Gad. G. Yunusa (2025). Assessment of Heavy and TraceMetals in Some Selected PsychoactiveSubstances. Journal of Brain andNeurosciences. RPC Publishers. 2(1); DOI:<https://www.doi.org/rpc/2024/rpc.jbns/00288>
15. Anih, D.C., Arowora, A.K., **Abah, M.A.**, Ugwuoke, K.C. (2025). Biochemical Effects of Microplastics on Human Health: A Comprehensive Review. *Science International*, 13(1), 27-34. <https://doi.org/10.17311/sciintl.2025.27.34>.
16. Okpanachi Nuhu Oyibo, Michael Unekwujo Attah, George Chinedu Ezeah, Ernest ChukwunonsoMgbeokwere, Agbo Sunday Okabeonye, et al. Evaluation Of the Antimalarial and Hepatoprotective Effects of JatrophaCurcas Leaf Extract in Plasmodium Berghei-Infected Mice. Am J Biomed Sci & Res. 2025 26(6) AJBSR.MS.ID.003492
17. Okpanachi Nuhu Oyibo, Michael Unekwujo Attah, George Chinedu Ezeah, Ernest Chukwunonso Mgbeokwere, Agbo Sunday Okabeonye, **Abah Moses Adondua** et al. Evaluation Of the Antimalarial and Hepatoprotective Effects of Jatropha Curcas Leaf Extract in Plasmodium Berghei-Infected Mice. Am J Biomed Sci & Res. 2025 26(6) AJBSR.MS.ID.003492, DOI: 10.34297/AJBSR.2025.26.003492
18. Oladosu M.A., **Adondua MA**, et al. Effect of Dietary Sucrose on Body Weight and Antioxidant Status (Vitamin C and Uric Acid) of Wister Strain of Albino Rats. *Food Sci & Nutri Tech* 2024, 9(3): 000353
19. Ayo V.I, **Abah MA**, Musa D.A, Egwim E.C et al. Extraction and Characterization of Type 1 Collagen from Heterotis Niloticus and Lates Niloticus Skin and Scales. *Int J Biochem Physiol* 2024, 9(2): 000261
20. Battah, M. V., Olawale, O., Abah, M., John, U. I., Dauda, M. A., Joel, E. A. - nde, Vera, C., & Umaru,

- K. I. (2024). Microbial Isolates in Microplastic-Polluted Soil. *African Journal of Biochemistry and Molecular Biology Research*, 1(1), 693-705.
21. Asuelimen Steve Osagie, Ale Ebenezer Morayo, Umaru John Isaac, **Moses Adondua Abah**, Ogbe Monday Eromosele and James Zakariya Gwoma, 2024. Effect of Aqueous Extract of *Allium sativum* on Biochemical Status in Gentamicin-Induced Hepatotoxicity in Wistar Rats. *International Journal of Botany*, 20: 10-19.
  22. **Abah, M. A.**, Olawale, O., Timothy, M., Timothy, N. C., Oyibo, O. N., Okpanachi, V., Yola, A., Uchechukwu, U. D., Ifeanyi, O. E., Owei, J. E., Abimbola, A. B., Najeeb, A. O., Chinenye, C. R., Egwolo, F. L., Iheanacho, C. C., & Edoke, O. S. (2024). Effect of Temperature on Microplastic Degradation in Soil Environment. *Asian Journal of Science, Technology, Engineering, and Art*, 2(5), 677-691.
  23. Tatah, S., Shadrach, P., & **Abah, M.** (2024). Nutritional and Biochemical Analysis of Locally Produced Wine from a Blend of Banana (*Musa sapientum*) and Date Palm Fruit (*Phoenix dactylifera* L.). *Asian Journal of Science, Technology, Engineering, and Art*, 2(3), 444-461.
  24. Arowora, K., Ugwuoke, K., **Abah, M.**, Dauda, A., & Ruyati, S. (2024). Evaluation of Serum Biochemical Parameters in Male Wistar Rats Administered with *Azadirachta Indica* Silver Nanoparticles. *Asian Journal of Science, Technology, Engineering, and Art*, 2(3), 462-475.
  25. Timothy, M., **Abah, M. A.**, Ayo, V. I., Ahmed, M. U., Oyibo, O. N., Ijeomah, N. G., Gbadebo, A.M., A. A.-L. R., Najeeb, A. O., Morolake, O. M., Iseko, K. I., Istifanus, D. K., & Umaru, I. J. (2024). Production and Characterisation of Peroxidase from *Aspergillus terreus* Isolated from Water Sample in Wukari, Taraba State, Nigeria. *African Journal of Biochemistry and Molecular Biology Research*, 1(1), 597-611.
  26. **Abah, M. A.**, Adebisi, A. K., Moses, I. O., Dooshima, A. M., Umaru, I. J., Uchechukwu, U. D., Timothy, M., & Timothy, M. (2024). Comparative Study on the Phytochemical and Micronutrients Levels in Selected Edible Mushroom Samples. *African Journal of Biochemistry and Molecular Biology Research*, 1(1), 726-742.
  27. Umaru IJ, **Abah MA**, Ugwah EJ, et al. Phytochemical profile and the effect of *Paulownia elongate* root and bark on gram positive and gram negative bacterial species. *Int J Complement Alt Med*. 2024;17(3):147-154.
  28. Joseph Ikwebe and **Moses Adondua Abah**. Haematological Changes in Male Albino Rats Administered Silver Nanoparticles. *Asian Journal of Research in Biosciences*. Volume 5, Issue 1, Page 13-20, 2023.
  29. Ayo VI, **Adondua MA**, Morayo AE, Ekele JU, Amilo D, Ochuele DA, Ayantse LM, Barrah C, Abdulsalam IO, Eya SB, Iheanacho CC, Tibile ST, Mohammed RI, Barde CE. 2023. Effect of *Lactuca sativa* supplemented diet on Poloxamer 407 induced hyperlipidemic albino rats (*Rattus norvegicus*). *Asian J Nat Prod Biochem* 21: 67-78.
  30. Kayode Adebisi Arowora, Kenneth Chinekwu Ugwuoke, **Moses Adondua Abah**, Bonaventure Chinecherem Ugwoke (2023). Effects of green-synthesized silver nanoparticles from *Azadirachta indica* on growth performance and liver function parameters in male albino rats. *Cell Biology & Development*, 7 (1): 35-41
  31. Isaac John Umaru, Asuelimen Steve Osagie, Alfred Martha Chizoba and **Moses Abah Adondua**. Antiulcer effects of the methanolic root extracts of *Paulownia elongata* on indomethacin-induced peptic ulcer in male albino rats. *World Journal of Advanced Research and Reviews*, 2023, 19(02), 178–188
  32. Silas TV, Stephen EC, **Abah MA**, Michael AS, Isaac UJ, Emochone RY. Growth indices of seeds (maize and cowpea) grown in heavy metal contaminated soil treated with ginger extract. *Toxicol Adv*. 2023;5(4):17
  33. Habibu B, Francis OO, Ejeh YO, **Abah MA**. Heavy metals and health risk analysis of arable farmlands in selected local government areas of Taraba State, Nigeria. *Toxicol Adv*. 2023;5(4):15.
  34. Martins AL, Silas TV, **Abah MA**, Adebisi AK, Sunday AM, Emochone RY, Iheanacho CC. 2024. Isolation, identification, and characterization of heavy metal-resistant bacteria from soil samples collected at a cement company in Nigeria. *Asian J Trop Biotechnol* 21: 26-32.
  35. Zhema P. Amachundi, **Moses A. Abah**, Emochone R. Yohanna, Emmanuel C. Okoli, Asemave S. Saaku and Bilyaminu Habibu (2022). Investigation of trace metal contamination in bread baked and sold in Wukari. *Global Scientific Journals*. 10(2):2076-2081.
  36. Emmanuel Chikodiri Okoli, **Moses Adondua Abah**, Otitoju Olawale, Emochone Roy Yohanna and Zephaniah Sheniah Hananiah (2022). Ecological Risk Assessment of Heavy Metals in Fish Samples from Donga River, Taraba State, Nigeria. *Asian Journal of Applied Sciences*, 15: 24-28.
  37. Isaac John Umaru, Yakubu Ojochenemi Ejeh, Maryam Usman Ahmed, Iliya Ezekiel, Kerenhappuch

- Isaac Umaru, Abu Michael Sunday and **Moses Abah Adondua** (2022). GC-MS, Radicals Scavenging Capacity and Antidiabetic Effect of Senna alata Seed Extract in Type II-Induced Diabetes Mellitus in Rats. *Res. J. Med. Plants*, 16(2): 49-58.
38. **Moses Abah Adondua**, Yakubu Ojochenemi Ejeh, Ugwoke Kenneth Chinekwa, Anih David Chinonso, Oduh Victoria Onyemowo and Akor Andrew Adikwu (2022). Selected Food Contaminants and their Interference with Nutrient Utilization by the Body System: Current Insights. *Asian Journal of Research in Biosciences*, 4(2):122- 132.
39. **Moses A. Abah**, Otitoju Olawale, Emmanuel C. Okoli, Ozioma P. Emmanuel, David C. Bando, Zephaniah H. Sheniah (2021). Determination Of Selected Pesticide Residues In Leafy Vegetables (*Amaranthus Spinousus*) Consumed In Donga, Taraba State. *International Journal of Biochemistry, Bioinformatics and Biotechnology Studies*, 6 (2):9-16.
40. **Moses A. Abah**, Otitoju Olawale, Emochone R. Yohanna, Emmanuel C. Okoli, Aondonam Isaac, Asemave S. Saaku, Bilyaminu Habibu (2022). Determination of Organic Pollutants In Water Samples From River Donga, Taraba State, Nigeria. *Journal of Research in Environmental and Earth Sciences*. 8(2), 01-05.

### CHAPTERS IN BOOKS

- i. Umaru, I.J., **Adondua, M.A.**, Umaru, K.I. (2025). Biochar-Based Composites for Removal of Pharmaceutically Active Compounds. In: Bhawani, S.A., Jawaid, M., Alotaibi, K.M. (eds) *Biochar-based Composites. Composites Science and Technology. Springer, Singapore.* [https://doi.org/10.1007/978-981-96-1479-0\\_8](https://doi.org/10.1007/978-981-96-1479-0_8)
- ii. Isaac John Umaru, **Moses Adondua Abah**, Kerenhappuch Isaac Umaru. Enzyme-assisted extraction of virgin olive oil, *Enzymes in Oil Processing, Elsevier, 2024.*

### SELECTED CONFERENCES ATTENDED

- i. Moses Adondua Abah, Otitoju Olawale, Oyibo Okpanachi Nuhu, Anna Yola. (2024). Effect of Temperature on Microplastic Degradation in Soil Environment- NSBMB Conference. Conference: 14th Annual South-East Zonal Conference (Hybrid) Conference Programme/Book of Abstract at: NSUKKA
- ii. Imo Chinedu, Ale Ebenezer Morayo, **Abah Moses Adondua**, Asuelimen Steve Osagie Abdullahi Wasila & Ikwebe Joseph. Awareness of Covid-19 and Covid-19 Vaccination Among Students of Federal University Wukari, N 156igeria. *7th International Interdisciplinary Research & Development Conference*. December, 2022.
- iii. Imo Chinedu, Asuelimen Steve Osagie, Ale Ebenezer Morayo, **Abah Moses Adondua**, Gambo Asabe Mary & Ikwebe Joseph. Prevalence of Peptic Ulcer among Youths in Wukari, Taraba State, Nigeria. *8th Multi-disciplinary Conference on African Development Analysis*. June, 2023.
- iv. Imo Chinedu, **Abah Moses Adondua**, Asuelimen Steve Osagie, Ale Ebenezer Morayo Mohammed Maryam & Ikwebe Joseph. Awareness of Hypertension and Hypotension among Youths in Wukari Metropolis, Nigeria. *8th Multi-disciplinary Conference on African Development Analysis*. June, 2023.
- v. Emochone Roy Yohanna, Mida Habila Mayel, Christopher Shaibu, Mgbede Timothy, **Moses Adondua Abah**, Silas Verwiyeh Tatah, Ojochenemi Ejeh Yakubu, Emochonne Utos Jonathan, Priscilla Nanna Binbong. Production, Partial Purification and Characterization of Peroxidase using *Aspergillus Terren* under Submerged Fermentation. *SOCIETY FOR EXPERIMENTAL BIOLOGY OF NIGERIA (NISEB) 22nd Annual Scientific Conference and General Meeting BU-NISEB CONFERENCE 2021*

### SELECTED WORKSHOPS ATTENDED

1. American Chemical Society Federal University. Wukari International Student Chapter Workshop: Promotion of Gender Equality in STEM. 2023
2. Centre for Gender Studies, Federal University Wukari. 1st Symposium: Gender Issues: Setting the Record Straight. 2023
3. Chemical Society of Nigeria, Wukari Chapter. 1st Training Workshop: Electrochemistry:

4. Association of African University (AAU). Quality Assurance (QA) Virtual Workshop in Research, Completing the Research Cycle: Publications and intellectual Property. 2020
5. Association of African University (AAU). Quality Assurance (QA) Virtual Workshop in Research. The African Student's Research Experience: Making a Case for Quality Supervision. 2020

## SELECTED WORK EXPERIENCE

### 1. Department of Biochemistry, Federal University Wukari, Taraba State, Nigeria (2022 till date)

#### Assistant Lecturer/Researcher

- Taught various undergraduate courses with several students ranging from 40 to 700 students;
- Prepared and delivered well-structured lectures, and graded tests/exams;
- Designed and supervised final year (400 level) students' thesis and seminar;
- Assisted Professors with research works and the Department with various administrative tasks.

#### Courses Taught

- General Biochemistry I – BCH 221;
- General Biochemistry II – BCH 242;
- Metabolism of Lipids – BCH 329;
- Biosynthesis of Macromolecules – BCH 421;
- Practical Biochemistry I – BCH 203
- Practical Biochemistry II – BCH 303;
- Advanced Enzymology and Protein Chemistry – BCH 411;
- Metabolism of Carbohydrates – BCH 327;
- Metabolism of Nucleic Acids – BCH 325.

#### Thesis Supervised

- Effect of temperature on microplastic degradation in soil environment
- Microbial isolates in microplastic-polluted soil
- Effect of NaOH on microplastic-polluted soil
- Isolation and Characterization of Toluene-degrading Bacteria from soil and water samples obtained from Wukari, Taraba State.
- Antibiotic residues in poultry eggs sold in Wukari, Taraba State, Nigeria
- Risk assessment of heavy metal content in yam tubers locally produced in selected local government areas of Taraba state
- Determination of particulate matter in residential buildings in Wukari, Taraba state.

#### Seminar Supervised

- Air pollution and brain health
- Antioxidant as strategy against metal exposure
- Teratogenesis
- Human intelligence: Gene-environment interaction
- Impact of exclusive maternal breast feeding in infants
- Impact of E-waste on human health and environment
- The role of antioxidants in ageing

### 2. Department of Biochemistry, Federal University Wukari, Taraba state, Nigeria (2018 – 2022) Graduate Teaching Assistant/Researcher

- Assisted assigned senior lecturers with coursework and tutorials for undergraduate students;
- supervised, scored, and recorded students' periodic assessments, and participated in departmental board meetings Acted as a liaison between the undergraduate students and faculty researchers.

- Wrote technical reports to document experimental results
  - Marked and graded students' results of tests and practicals
3. **Centre for Human and Zoonotic Virology (Mar. 2020- Jan. 2021): Trainee/Volunteer**
    - I trained in this lab as an intern for 6 months before I started working with them as a volunteer molecular scientist during the second wave of COVID-19 in Nigeria.
  4. **General Hospital Goronyo, Sokoto State, Nigeria (January 2017- January 2018): One \year National Youth Service as a youth corps member- Laboratory Scientist\**
    - I collected samples (blood, stool, urine, e.t.c) from patients
    - I performed some basic analysis like genotyping, typhoid test, malaria test, urine microscopy, blood transfusion, kidney function test, among others.
  5. **Benue State University Teaching Hospital, Makurdi, Nigeria (March 2015 – October 2015): Internship -Chemical Pathology Laboratory Scientist**
    - I collected samples (blood, stool, urine, e.t.c) from patients
    - I performed some basic analysis like fasting blood sugar test (FST), fasting lipid profile test (FLP), liver function test (LFT), kidney function test, among others.

## SKILLS AND COMPETENCIES

- Operational competence in high containment facilities e.g., BSL 2,3and4 laboratories;
- Proficiency in molecular techniques;
- Nucleic acid extraction, amplification, gel electrophoresis and real time PCR;
- Proficiency in immunoassays e.g., Complement fixation test, Enzyme immunoassay;
- Haemagglutination inhibition test, strip tests;
- Proficiency in tissue culture techniques;
- Basic statistical analysis skill using SPSS, Python and R;
- Proficiency in Microsoft Office packages e.g., Word, Powerpoint, Excel and Access;
- Ability to multitask, handle bulky workload and quickly adapt to new challenges;
- Excellent writing oral communication skills;
- Proficiency in Bioinformatics and protein docking;
- Team Leadership and Volunteer Supervision;
- Report and Proposal Writing;
- Fundraising and Donor Management;
- Academic research and scientific writing;
- Proficiency in Google Workspace Tools (Docs, Sheets, Slides, and Forms);
- Excellent Public Speaking and Presentation Skills (Using Google slides, Microsoft PowerPoint and Canva);
- Ability to Multitask, Handle Bulky Workload and Quickly Adapt to New Challenges;
- Spoken Languages: English – Fluent (Primary Language of Communication), Idoma (Native proficiency).

## HONOURS AND AWARDS

1. **Petroleum Trust Development Fund (PTDF) Award** Year of Award 2024
2. **Tertiary Education Trust Fund (TETFUND)** Year of Award 2021
3. **Total Nigeria Undergraduate Scholarship** Year of Award 2015
4. **Vice Chancellor's Partial Scholarship for Excellent Academic Performance, Federal University Wukari.** Year of award: 2015

5. **Vice Chancellor's Academic Merit List, Federal University Wukari.** Years of award: 2014.
6. **Dean's Academic Excellence Award, Faculty of Pure and Applied Sciences, Federal University Wukari.** Year of award: 2013

#### **MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS**

1. Royal Society of Chemistry 2025 till date
2. Nigerian Society for Experimental Biology (NISEB) 2025 till date
3. Society of Environmental Toxicology and Chemistry (SETAC) 2025 till date
4. Nigerian Society of Biochemistry and Molecular Biology (NSBMB) 2024 till date
5. European Society for Clinical Investigation - Member 2024 till date
6. World Public Health Nutrition Association 2024 till date
7. National Association of Nutrition Professionals 2023 till date
8. International Network for Health Workforce Education 2023 till date
9. British Society of Parasitology 2022 till date
10. Agriculture, Nutrition and Health Academy 2022 till date
11. International Society for Infectious Diseases (ISID) 2020 till date
12. National Youth Service Corp (NYSC) 2016 till date

#### **ADMINISTRATIVE AND LEADERSHIP EXPERIENCE**

- **Editorial Board Member**, Clareus Scientific Journal 2025 till date
- **Co-founder**, Research Hub Nexus ([Research Hub Nexus](#)) 2024 till date
- **Level Adviser**, 400 level Biochemistry Students, Federal University Wukari, Taraba State 2023 till date
- **President**, Federal Road Safety Corps, Community Development Service (CDS)/National Youth Service Corps, Sokoto, Sokoto State. 2017
- **Vice-President**, National Association of Biochemistry Students, Federal University, Wukari chapter, Nigeria 2015

#### **VOLUNTEERED COMMUNITY SERVICE**

1. **Voluntary Blood Donor** 2019 till date
2. **Independent Electoral Commission (INEC)** 2023
  - Volunteered to serve as a Ward Collation officer in the presidential and gubernatorial election conducted in Taraba State, Nigeria.
3. **Covid-19 Volunteer Service, Taraba State, Nigeria** 2020

- Volunteered to work in a community hospital (General Hospital Wukari) to distribute COVID-19 test kits, vaccines, and palliatives during the COVID-19 pandemic.
4. **National Youth Service Corps (NYSC)** **2017**
    - One-year Volunteer service as a laboratory attendant in General Hospital Goronyo, Sokoto state, Nigeria.
  5. **Nigeria Christian Corpers' Fellowship, Sokoto State Chapter** **2017**
    - "Rural Rugged evangelism": outreach which involved reaching out to people in rural areas to distribute relief materials like clothes, medical services, and other services. We visited 6 villages across the State within 10 months.
  6. **Sponsor, Biochemistry Students Tutorial Group** **2015-2016.**
    - I founded this group as an undergraduate student in 2015 to assist students who are not intellectually sound so that they can cope with their academic pursuit in the Department of Biochemistry, Federal University Wukari, Taraba state, Nigeria.

## HOBBIES

Reading, traveling, soccer, playing instruments, reading, hanging out, chatting and surfing the internet and playing board games like scrabble, chess and monopoly.

## CONTACT REFEREES

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