



# PETER MUDIAGA ETAWARE



**B.Sc., M.Sc., PhD**

**University Scholar (2004/2005)**

**Expertise:** Life & Environmental Sciences, Agronomy, Plant Pathology, Biostatistics, Epidemiology of Infectious Diseases, Climate-Smart Modelling, AI/ML Prog.

**Climate-Smart Apps Developed:**

S <sup>/</sup> N	Climate-Smart App	Description	Year
1.	ETAPOD <sup>®</sup>	Cocoa BPD Estimator	2019
2.	Etaware-CDT-2020	COVID-19 Detector	2020
3.	ETA-REX-EMM-Flu-Vac	Flu Immunity Forecast	2024
4.	ETA-REX-EMM-Flu-Epidemics	Flu Outbreak Radar	2024
5.	ETA-REX-EMM-Flu-Deaths	Flu Death Analyzer	2024
6.	EM4Cast_Africa	Malaria Disease Radar	2025

**Consultations/Journal Affiliations:**

- Editorial Board Member: AS-Cancer Biology
- Reviewer: Journal of Plant Pathology and Microbiology
- Guest Speaker: Enzyme 2019, Berlin, Germany

**Academic Proficiency:**

- Teaching, Research & Contemporary Data Analysis
- Supervisory Roles (Field Work, Students' Research)
- Career Guidance & Counselling
- AI/ML and Basic Programming (Trainee)

**Section A: Bio-data**

Name: Peter Mudiaga Etaware

Nat'l/State/LGA/Town: Nigerian/Delta/Ughelli North/Evwreni

Marital Status: Married

Religion: Christianity

Address: 12, John Etaware Street, Tedi, Ojo; P. O. Box 282, Navy Town, Lagos, Nigeria

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E-mail (Private): peterparkers007@gmail.com; peteretaware@gmail.com

Twitter ID: @PeterEtaware

Scopus ID: 57213346660

Web of Science ID: AFN-7680-2022

PMID/PMCID: 31923186/PMC6953891

ORCID: <https://orcid.org/0000-0002-9370-8029>

AD Scientific Index: [www.adscientificindex.com/scientist/peter-mudiaga-etaware/4648883](http://www.adscientificindex.com/scientist/peter-mudiaga-etaware/4648883)

ResearchGate: <https://www.researchgate.net/profile/Peter-Etaware>

Appointments: **Head**, Dept. of Biological Sci. (AEB, Biol. & PSB), DSUST, Ozoro, 2023/2024  
**Head**, Dept. of Biology, NMU, Okerenkoko, Warri, Delta, Nigeria. 2018/2019

## Section B: Academic Record

No.	Degree	Grade/Status	Specialization	Dept.	Institution Attended	Year
1	Ph.D.	Completed	Plant Path./Epidem'l	Botany	University of Ibadan	2019
2	M.Sc.	Distinction (72.9%)	Plant Pathology	Botany	University of Ibadan	2012
3	B.Sc.	2 <sup>nd</sup> Class Upper (4.05/5)	Plant Path./Mycol.	Botany	Lagos State University	2007
4	SSCE	O/Level	Basic Sciences	Science	Ideal Comp. High Sch.	2005
5	SSCE	O/Level	Basic Sciences	Science	WASSCE/WAEC	1999
6	SSCE	O/Level	Basic Sciences	Science	Army Cant. B. Sec. Sch.	1998
7	Cert.	Basic Level	Basic Education	Primary	Army Demo. Pry Sch.	1992

## Section C: Awards & Appointments

No.	Award/Appointments	Session	Awarding Body	Duration
1	Head, Dept. of Biological Sciences	2023/2024	DSUST, Ozoro, Delta, Nigeria	2023/2024
2	Head, Department of Biology	2018/2019	NMU, Okerenkoko, Delta, Nigeria	2018/2019
3	The University Scholar	2004/2005	Lagos State University, Ojo, Nigeria	13/06/2006

## Section D: Committees

No.	Committee	Session	Position	Institutions	Year
1	NISEB Conference	2024/2025	LOC Sec. (Asst.)	SDU, Ozoro	2025
2	FOS Conference	2023/2024	LOC Sec. (Asst.)	FOS/DSUST, Ozoro	2024
3	Laboratory Maintenance	2022/2023	Chairman	BIO/FOS/DSUST, Ozoro	2023
4	POP for Corp Members	2007/2008	Chairman	NYSC/Geidam/Yobe	2008
5	NACC School	2007/2008	PRO/Principal	NYSC/Geidam/Yobe	2008

## Section E: Professional Affiliation

No.	Academic Society	Acronym	Status	Member's ID	Year
1.	Biotechnology Society of Nigeria	BSN	Member	2500528	2025
2.	Eur. Soc. of Clin. Micobiol. & Infect. Dis.	ESCMID	Member	-----	2024
3.	American Society for Microbiology	ASM	Member	609404...6190	2022
4.	Microbiology Society, UK	Mi Society	Member	C042020	2022
5.	Nigerian Society for Microbiology	NSM	Member	#0000000814	2022
6.	Australian Society of Plant Scientists	ASPS	Member	ABN 19612119821	2022
7.	Botanical Society of America	BSA	Member	ng	2022
8.	Botanical Society of Britain and Ireland	BSBI	Member	125672	2022
9.	Botanical Society of Nigeria	BOSON	Member	B00000823	2022
10.	Swiss Botanical Society	SBS	Member	-----	2022

## Section F: Supervisory Roles (Students' Research)

### *Undergraduate: Department of Biological Sciences, SDU, Ozoro*

No.	Degree	Unit	Name of Students	Matric. No	Institution	Grad. Year
1.	B.Sc.	Biology	Akpobasah Zenia A.	FOS/21/000118	SDU, Ozoro, Delta State	2024/2025
2.	B.Sc.	Biology	America Joshua	FOS/21/001241	SDU, Ozoro, Delta State	2024/2025
3.	B.Sc.	Biology	Asama Solomon E.	FOS/21/001015	SDU, Ozoro, Delta State	2024/2025
4.	B.Sc.	Biology	Irero-Williams D.	FOS/21/001686	SDU, Ozoro, Delta State	2024/2025
5.	B.Sc.	Biology	Jacob O. Lydia	FOS/21/002403	SDU, Ozoro, Delta State	2024/2025
6.	B.Sc.	Biology	Jonathan Destiny R.	FOS/21/001167	SDU, Ozoro, Delta State	2024/2025
7.	B.Sc.	Biology	Okpabe Favour O.	FOS/21/000158	SDU, Ozoro, Delta State	2024/2025
8.	B.Sc.	Biology	Onwusah Precious	FOS/21/001475	SDU, Ozoro, Delta State	2024/2025
9.	B.Sc.	Biology	Otuya Treasure O.	FOS/21/001028	SDU, Ozoro, Delta State	2024/2025
10.	B.Sc.	Biology	Sunday Faith E.	FOS/21/001440	SDU, Ozoro, Delta State	2024/2025
11.	B.Sc.	Biology	Usama Jennifer C.	FOS/21/000335	SDU, Ozoro, Delta State	2024/2025

### *Post-Graduate: TRA Plant Pathology Students' Coordinator*

No.	Degree	Dept.	Unit	Name of Students	Institution	Grad. Year
1.	M.Sc.	Botany	Plant Pathology	Shennaike Olumayowa A.	University of Ibadan	2017/2018
2.	M.Sc.	Botany	Plant Pathology	Adewuyi-Samuel B. O.	University of Ibadan	2017/2018
3.	M.Sc.	Botany	Plant Pathology	Ogungbemile Oredoyin	University of Ibadan	2017/2018
4.	M.Sc.	Botany	Plant Pathology	Owolabi Abibat O.	University of Ibadan	2018/2019
5.	M.Sc.	Botany	Plant Pathology	Kayode	University of Ibadan	2018/2019

## Section G: Scientific Publications (Articles)

### SCOPUS INDEXED ARTICLES

No.	Scientific Publications (Research & Review Articles)	Year
1.	<b>Etaware P. M.</b> Deep learning in predictive medicine exemplified by AI-mediated flu surveillance in USA <b>In</b> K., Raza (Ed.). <i>Deep learning in genetics and genomics. Elsevier.</i> Chapter 1, 02: 36 – 65.	2025
2.	Anani O. A., Adama K. K., <b>Etaware P. M.</b> , Evuen U. F., Essaghah A. E., Ogwu C. Biomimics of the insect gut for advanced design of lignocellulosic biorefinery <b>In</b> M. A. Dar et al. (eds.), Recent trends in lignocellulosic biofuels and bioenergy: Clean energy production technologies. <b>Springer Nature Singapore Pte Ltd.</b> Chapter 8: 203-225. <a href="https://doi.org/10.1007/978-981-96-4636-4_8">https://doi.org/10.1007/978-981-96-4636-4_8</a>	2025

3. Adama K. K., Anani O. A., Evuen U. F., **Etaware P. M.**, Essaghah A. E., Ikhazuangbe P. M. O., Isaac F. O., Ogwu C. Assessing the market and policies for biofuels/biorefinery across Asian countries **In** M. A. Dar et al. (eds.), *Recent trends in lignocellulosic biofuels and bioenergy: Clean energy production technologies*. **Springer Nature Singapore Pte Ltd**. Chapter 12: 331-373. [https://doi.org/10.1007/978-981-96-4636-4\\_12](https://doi.org/10.1007/978-981-96-4636-4_12)
4. Evuen U. F., Okolie N. P., Apiamu A., **Etaware P. M.**, Kpomah E. D. Bio-modulation of specific biochemical markers linked with oxidative stability in frozen beef. **BMC Agriculture**. 15pg. <https://doi.org/10.1186/s44399-024-00001-7>.
5. Obiebi P. O., **Etaware P. M.**, Okom S. U., Eze E. M., Evuen U. F., Orogu J. O., Ainyanbhor I. E., Ogwezzy P. I., Aruoren O., Ukolobi O. Current and future biodegradable plastics in the COVID-19 era **In** O. A., Anani *et al.* (Eds.). *Plastic and the COVID-19 pandemic*. [https://doi.org/10.1007/978-3-031-74769-4\\_4](https://doi.org/10.1007/978-3-031-74769-4_4). **Springer Nature Switzerland AG**. Chapter 4: 45 - 51.
6. Ainyanbhor I. E., **Etaware P. M.**, Evuen U. F., Obiebi P. O., Okom S. U., Eze E. M., Ogwezzy P. I., Aruoren O., Anani O. A., Orogu J. O. The role of international trade and corporation in the improvement of plastic management **In** O. A., Anani *et al.* (Eds.). *Plastic and the COVID-19 pandemic*. [https://doi.org/10.1007/978-3-031-74769-4\\_9](https://doi.org/10.1007/978-3-031-74769-4_9). **Springer Nature Switzerland AG**. Chapter 9: 141 - 148.
7. Eze E. M., Obiebi P. O., Okom S. U., Aruoren O., Evuen U. F., Okpoghono J., Orogu J. O., **Etaware P. M.**, Ainyanbhor I. E., Ogwezzy P. I. Nexus between population growth and plastic wastes: generation of positive and negative effects under COVID-19 pandemic era **In** O. A., Anani *et al.* (Eds.). *Plastic and the COVID-19 pandemic*. [https://doi.org/10.1007/978-3-031-74769-4\\_1](https://doi.org/10.1007/978-3-031-74769-4_1). **Springer Nature Switzerland AG**. Chapter 1: 1 - 9.
8. Ainyanbhor I. E., **Etaware P. M.**, Evuen U. F., Obiebi P. O., Okom S. U., Eze E. M., Ogwezzy P. I., Aruoren O., Anani O. A., Orogu J. O. The impact of COVID-19 lockdown on the production and control of plastics **In** O. A., Anani *et al.* (Eds.). *Plastic and the COVID-19 pandemic*. [https://doi.org/10.1007/978-3-031-74769-4\\_2](https://doi.org/10.1007/978-3-031-74769-4_2). **Springer Nature Switzerland AG**. Chapter 2: 11 - 26.
9. Evuen U. F., Apiamu A., Anani O. A., **Etaware P. M.** Enduring impacts of plastic bags and their implications on global tax laws following the COVID-19 pandemic lockdown **In** O. A., Anani *et al.* (Eds.). *Plastic and the COVID-19 pandemic*. [https://doi.org/10.1007/978-3-031-74769-4\\_7](https://doi.org/10.1007/978-3-031-74769-4_7). **Springer Nature Switzerland AG**. Chapter 7: 99 - 109.
10. Ekun V. S., Adenipekun C. O., Idowu O., and **Etaware P. M.** Mushroom husbandry: A tool for pollution control and waste management with job opportunities and revenue for rural communities and farm settlements. *Waste Management Bulletin*, **Elsevier**. 1(4): 15-22. <https://doi.org/10.1016/j.wmb.2023.08.001>

11. Ogwezzy P. I., **Etaware P. M.**, Obiebi P. O., Evuen U. F., Okom S. U., Eze E. M., Ainyanbhor I. E., Aruoren O., Anani O. A., Orogu J. O. Emerging Pollutant Compounds Challenges for Freshwater Ecologists **In** O. A., Anani & M.P., Shah (Eds.). Emergent Pollutants in Freshwater Plankton Communities: Ecological Effects and Sustainable Mitigation Strategies (1<sup>st</sup> ed.). **Taylor & Francis**. CRC Press. <https://doi.org/10.1201/9781003362975>. Chapter 1: 12 pp. 2024
12. Obiebi P. O., Eze E. M., Okom S. U., **Etaware P. M.**, Evuen U. F., Ukolobi O., Omoruwou P. E., Aruoren O., Ainyanbhor I. E., Orogu J. O. Analytical Study of the Environmental Effects of Emergent Pollutants on Plankton Community **In** O. A., Anani & M.P., Shah (Eds.) (2024). Emergent Pollutants in Freshwater Plankton Communities: Ecological Effects and Sustainable Mitigation Strategies (1<sup>st</sup> ed.), **Taylor & Francis**. CRC Press. <https://doi.org/10.1201/9781003362975>. Chapter 3: 10 pp. 2024
13. Eze E. M., Obiebi P. O., Okpoghono J., Aruorem O., **Etaware P. M.**, Ukolobi O., Evuen U. F., Orogu J. O. Occurrence and Fate of Pharmaceutical and Cosmetic Wastes on Plankton Consortia **In** O. A., Anani & M.P., Shah (Eds.). (2024). Emergent Pollutants in Freshwater Plankton Communities: Ecological Effects and Sustainable Mitigation Strategies (1<sup>st</sup> ed.), **Taylor & Francis**. CRC Press. <https://doi.org/10.1201/9781003362975>. Chapter 5: 19 pp. 2024
14. Eze E. M., Aruoren O., Orogu J. O., Ukolobi O., **Etaware P. M.**, Okpoghono J. Effects of Personal Care Products on Surface Water Floating Organisms **In** O. A., Anani & M.P., Shah (Eds.). (2024). Emergent Pollutants in Freshwater Plankton Communities: Ecological Effects and Sustainable Mitigation Strategies (1<sup>st</sup> ed.), **Taylor & Francis**. <https://doi.org/10.1201/9781003362975>. Chapter 9: 15 pp. 2024
15. Okom S. U., Eze E. M., **Etaware P. M.**, Obiebi P. O., Evuen U. F., Okpoghono J., Ogwezzy P. I., Ainyanbhor I. E., Aruoren O., Anani O. A., Orogu J. O. Economic Management and Challenges Faced in the Management of Emergent Pollutant **In** O. A., Anani & M.P., Shah (Eds.). (2024). Emergent Pollutants in Freshwater Plankton Communities: Ecological Effects and Sustainable Mitigation Strategies (1<sup>st</sup> ed.), **Taylor & Francis**. CRC Press. <https://doi.org/10.1201/9781003362975>. Chapter 11: 15 pp. 2024
16. **Etaware P. M.** Critical evaluation of the agro-ecological system of the Republic of South Africa (30°S) in response to unclassified claims of cocoa farming beyond 20°S of the equator. **PLOS ONE**. 18(8): e0289873;10.1371/journal.pone.0289873 2023
17. **Etaware P. M.** Some Identifiable Factors Responsible for the Variation in Cocoa Production in Nigeria and Other Cocoa Producing Nations, Adjudicated by Their Contributions to the Global Market. **Frontiers in Agronomy**. 4:731019. doi: 10.3389/fagro.2022.731019 2022

18. **Etaware P. M.** Breakage analysis and DEB testing **In** N., Rezael (Ed.). *Encyclopedia of Infection and Immunity*. 1<sup>st</sup> Edition. **Elsevier**. Chapter 00164. doi: 10.1016/B978-0-12-818731-9.00164-6. 2022
19. **Etaware P. M.** Virtual system for early detection of COVID-19 infection “Etaware-CDT-2020 prototype design” (corroborated by rRT-PCR data). *Biomed. Signal Proc. & Control*. **Elsevier**. <https://doi.org/10.1016/j.bspc.2021.103337> 2021
20. **Etaware P. M.** The effects of the phytochemistry of cocoa on the food chemistry of chocolate(s) and how disease resistance in cocoa can be improved using CRISPR/Cas9 technology. *Food Chemistry: Molecular Sciences*. **Elsevier**. <https://doi.org/10.1016/j.fochms.2021.100043>.] 2021
21. Obiakara M. C., **Etaware P. M.**, Chukwuka K. S. Maximum entropy niche modelling to estimate the potential distribution of *Phytophthora megakarya* Brasier and M. J. Griffin (1979) in tropical regions. *European Journal of Ecology*. 6(2): 23-40. 2020
22. **Etaware P. M.**, Adedeji A. R., Osowole O. I., Odebode A. C. ETAPOD: A forecast model for prediction of black pod disease Outbreak in Nigeria. **PLOS ONE Journals**. 15(1): 24pg. <https://doi.org/10.1371/journal.pone.0209306>. 2020
23. **Etaware P. M.** Rapid Computer Diagnosis for the Deadly Zoonotic COVID-19 Infection **In** Computational Intelligence Methods in COVID-19: Surveillance, Prevention. Prediction and Diagnosis. Studies in Computational Intelligence Book Series. **Springer\_Nature Publishers**. Switzerland AG. Chapter 12: 25pg. <https://www.springer.com/series/7092>. 2020
24. Akanmu A. O., Abiala M. A., Akanmu A. M., Adedeji A. D., **Mudiaga P. M.**, Odebode A. C. Plant extract abated pathogenic fusarium species of millet seedlings. *Archives of Phytopathology and Plant Protection*. 46(10): 1189-1205. 2013

## INTERNATIONAL JOURNALS

- | No. | Scientific Publications (Research & Review Articles)                                                                                                                                                                                                                                                                                               | Year |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 25. | <b>Etaware P. M.</b> Jacob O. L., Egara O. W., Ekun V. S. Cocoa bean: Technological advancement in cocoa production, medicinal, pharmacological and nutritional importance of cocoa. <i>Journal of Agricultural Research Advances</i> . 07 (03): 30-37                                                                                             | 2025 |
| 26. | <b>Etaware P. M.</b> Jacob O. L., Egara O. W., Ekun V. S. Rice breeding and genetics: The impact of climate change and pestilence on global rice production. <i>Journal of Agricultural Research Advances</i> . 07 (03): 07-14                                                                                                                     | 2025 |
| 27. | <b>Etaware P. M.</b> Usama C. J., Egara O. W., Ekun V. S. Pharmacological, medicinal, nutritional and phytofungicidal properties of <i>Xylopiya aethiopica</i> (Dunal) A. rich., <i>Piper guineense</i> Schumach. & Thonn. and <i>Monodora myristica</i> (Gaertn.) dunal spices. <i>Journal of Agricultural Research Advances</i> . 07 (02): 23-32 | 2025 |

28. **Etaware P. M.** Jacob O. L., Egara O. W., Ekun V. S. Effects of pestilence on cassava production and global food security: The challenges of pests and disease management. *Journal of Agricultural Research Advances*. 07 (02): 42-46 2025
29. **Etaware P. M.** Usama C. J., Egara O. W., Ekun V. S. Economic importance of wheat (*Triticum aestivum* L.) and current advances in wheat genome biotechnology. *Journal of Agricultural Research Advances*. 07 (02): 14-22 2025
30. **Etaware P. M.,** Usama C. J., Egara O. W., Ekun V. S. Global cassava production: Economic importance and challenges faced by indigenous farmers. *Journal of Agricultural Research Advances*. 07 (01): 30-35 2025
31. **Etaware P. M.,** America J., Egara O. W., Ekun V. S. Herbal medicine: scientific validation and future prospects. *International Journal of Pharm. Chem.* 11(3): 67-75 2025
32. **Etaware P. M.,** Jonathan R. D., Egara O. W., Ekun V. S. Pharmacological, Nutritional, Medicinal and Industrial uses of Coffee: Benefits and Health Risks. *Journal of Surgical Case Reports and Images*. 8 (5): 2690-1897 2025
33. **Etaware P. M.** Soil-Plant Interaction: The consequences of poor farm soil on cocoa production in Africa. *International Journal of Current Microbiology and Applied Sciences*. <https://doi.org/10.20546/ijcmas.2025.1407.xx>. 14(7): 13pg 2025
34. **Etaware P. M.,** Okpabe O. F., Egara O. W., Ekun V. S. The Rubber Plant: Economic Importance, Environmental Challenges and Technological Advancement in Rubber Production and Processing. *Journal of Modern Science and Scientific Methods*. 1(3): 1-7 2025
35. Egara O. W., **Etaware P. M.** Thinking Outside the Box and Inside the Details: The Role of Creative and Critical Thinking in Contemporary Problem-Solving. *British Journal of Multidisciplinary and Advanced Studies*. 6(2): 68-76 2025
36. Egara O. W., **Etaware P. M.,** Oviemuno B. G., Elijah C. Igwebuike Socio-Political Philosophy: A Catalyst for National Integration and Sustainable Peace in Nigeria. *Journal of Global Research in Education and Social Science*. 19(4): 157-167 2025
37. **Etaware P. M.** Laboratory procedure for detection of Fanconi (Aplastic) anaemia. *Journal of Agricultural Research Advances*. 03(04): 25-27 2021
38. **Etaware P. M.** Biomineralization of toxicants, recalcitrant and radioactive wastes in the environment using genetically modified organisms. *Journal of Agricultural Research Advances*. 03(02): 28-36 2021
39. **Etaware P. M.** Lipotoxicity and induced suppression of fungi associated with decay of melon seeds in Nigeria. *Journal of Agricultural Research Advances*. 03(02): 09-16 2021
40. Ekun, V. S., Adenipekun, C. O., Ojuederie, O. B., and **Etaware P. M.** Spatial and regional directory of wild *Auricularia* species in the forest of Southwest, Nigeria. *African Journal of Biotechnology*. 20(10): 398-415 2021

41. Iserhienrhien, L. O., Okolie, N. P., and **Etaware P. M.** Antimicrobial effects of *Geophila obvallata* (Schumach) Didr. leaf extracts against pathogenic microbes. *Archives of Ecotoxicology*. 3(4): 103-109. Doi: 10.21203/rs-96367/v1 (Research Square). 2021
42. **Etaware P. M.** Medicinal Plants, Synthetic drugs or Clinical therapy: The safest option against the pandemic COVID-19 Coronavirus. *Pharmacology and Alternative Medicine Academic Journal*. 5(1): 1-13 2020
43. Abbasi M. S. A., Ronak R. C., **Etaware P. M.**, Tahir M. A. A Multi-Perspective Recreational Wetland Ecological Study of Controlled Down-Stream Water Channel. *Asian Journal of Research in Botany*. 4(3): 14-18 2020
44. **Etaware P. M.** Risk Assessment and Global Sensitization on the Pandemic Spread and Zoonotic Transmission of the deadly COVID-19 Coronavirus Infection. *Pharmacology and Alternative Medicine Academic Journal*. 5(2): 1-12 2020
45. **Etaware P. M.** and Etaware E. U. Sensory Evaluation of Pulverized Okra (*Abelmoschus esculentus* L. Moench) Preserved by Local Techniques. *Journal of Agricultural Research Advances*. 2(1): 25-28 2020
46. Ogungbemile O. A., **Etaware P. M.**, Odebode A. C. Aflatoxin detection and quantification in stored cowpea seeds in Ibadan, Nigeria. *Journal of Biotechnology and Biomedicine*. 3(1): 10-18 2020
47. Ogungbemile O. A., **Etaware P. M.**, Odebode A. C. Application of plant-based fungicides to controls aflatoxigenic fungi producing mycotoxins in stored cowpea seeds. *Journal of Biotechnology and Biomedicine*. 2(4): 173-181 2020
48. **Etaware P. M.** and Ogungbemile O. A. Morphological analysis of fungi responsible for spoilage and postharvest loss of cowpea seeds in Ibadan, Nigeria. *Noble Inter'l Journal of Agric. and Food Technology*. <https://www.napublisher.org>. 1(1): 29-36 2019
49. **Etaware P. M.** Plant disease forecast and modern dynamism in black pod disease management in Nigeria. *African Journal of Plant Science*. 13(10): 273-278 2019
50. **Etaware P. M.** The Effects of *Calotropis procera*, *Adansonia digitata* and *Manihot esculenta* in the remediation of soil-borne fungal diseases of tomato. *Journal of Agricultural Research Advances*. 1(2): 28-37 2019
51. **Etaware P. M.** Stereotyping fungi affecting stored melon seeds within local markets in Lagos, Nigeria. *Journal of Applied Microbiological Research*. 2(2): 14-20 2019
52. **Etaware P. M.** and Adedeji A. R. Assessment of black pod disease outbreak in Southwest, Nigeria. *Journal of Agricultural Research Advances*. 1(2): 16-25 2019
53. Adewuyi-Samuel O. B., **Etaware P. M.**, Shennaike O. A., Odebode A. C. Bio-treatment of fruitlet core rot associated with fungi-induced postharvest deterioration in

54. **Etaware P. M.** and Oyetunji O. J. Endemic disease of cultivated tomato and microbial screening for infectious agents in Ibadan, Nigeria. *Research and Reviews: Journal of Agriculture and Allied Sciences*. 8(1): 44-54 2019
55. Etaware E. U. and **Etaware P. M.** Conservation of the functional properties of okra powder by local storage techniques. *Journal of Nanotechnology Research*. 1(2): 136-143 2019
56. **Etaware P. M.**, Etaware E. U., Olaoluwa O. O., Oyetunji O. J., Aiyelaagbe O. O., Odebode A. C. The impact crude plant extracts: As potential biofertilizers and treatment against tomato plant infection. *Journal of Plant Pathology and Microbiology*. 10(4): 481-491 2019
57. **Etaware P. M.** and Etaware E. U. The effects of food processing techniques on nutrient composition of Okra (*Abelmoschus esculentus* L. Moench). *International Journal of Innovative Research and Advanced Studies*. 6(10): 90-94 2019
58. **Etaware P. M.** Abnormal symptoms of fungi-induced morphological changes in infected melon (*Colocynthis citrullus* Linn.) seeds during storage. *IOSR, Envir. Sci., Tox. & Food Tech. (IOSR-JESTFT)*. <https://www.iosrjournals.org>. 12(11): 13-17 2019

## NATIONAL / LOCAL JOURNALS

- | No. | Scientific Publications (Research & Review Articles)                                                                                                                                                                                            | Year |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 59  | <b>Etaware P. M.</b> Food science is the investigation of synthetic cycles. <i>International Journal of Applied Biology and Pharmaceutical Technology</i> . <a href="https://www.iomcworld.org">https://www.iomcworld.org</a> . 02(05): 000-001 | 2021 |
| 60. | Oke O. A., Ewekeye T. S., <b>Etaware P. M.</b> Studies on fungal deterioration of melon ( <i>Colocynthis citrullus</i> L.) seeds in Lagos, Nigeria. <i>Nigerian Journal of Botany</i> . 22(1), 73-80                                            | 2009 |

## Section H: Poster Publications

- | No. | Title & Publisher                                                                                                                                                     | Year |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1.  | <b>Etaware P. M.</b> Phenotyping of rot fungi associated with spoilage of stored melon seeds. <i>ScienceOpen Posters</i> . Doi: 10.14293/S2199-1006.1.SOR-,PPDAVIN.v1 | 2022 |
| 2.  | <b>Etaware P. M.</b> Diagnosis of fanconi anaemia by phenotype and genetic study. <i>ScienceOpen Posters</i> . Doi: 10.14293/S2199-1006.1.SOR-,PPVLVGS.v1             | 2022 |
| 3.  | <b>Etaware P. M.</b> Trend analysis for black pod disease outbreak in Southwest Nigeria. <i>ScienceOpen Posters</i> . Doi: 10.14293/S2199-1006.1.SOR-,PPJB7D7.v1      | 2022 |

4. **Etaware P. M.** The epidemiology and epistemology of flu outbreak in North America. *ScienceOpen Posters*. Doi: 10.14293/S2199-1006.1.SOR-,PPKUDA2.v1 2022
5. **Etaware P. M.** Fungi associated with the inhibition of germination of cowpea seeds. *ScienceOpen Posters*. Doi: 10.14293/S2199-1006.1.SOR-,PPPUCVV.v1 2022
6. **Etaware P. M.** ETAPOD – A virtual system for the estimation of black pod disease. *ScienceOpen Posters*. Doi: 10.14293/S2199-1006.1.SOR-,PPUCD5H.v1 2022
7. **Etaware P. M.** Aflatoxin detection in marketed cowpea samples in Ibadan, Oyo, Nigeria. *ScienceOpen Posters*. Doi: 10.14293/S2199-1006.1.SOR-,PPCNQJX.v1 2022
8. **Etaware P. M.** Distribution of *Phytophthora* species causing black pod disease of cocoa. *ScienceOpen Posters*. Doi: 10.14293/S2199-1006.1.SOR-,PPCZGJB.v1 2022
9. **Etaware P. M.** Cocoa genome engineering using CRISPR/Cas9 technology. *ScienceOpen Posters*. Doi: 10.14293/S2199-1006.1.SOR-,PP9Y65G.v1 2022
10. **Etaware P. M.** Fungal pathogens triggering distress in tomato plants (nursery & field). *ScienceOpen Posters*. Doi: 10.14293/S2199-1006.1.SOR-,PPQQSSM.v1 2022

## Section I: Indexed Abstracts and Conferences Attended

No.	Conferences/Presentations/Abstracts	Date & Venue	Year
1.	Microbial screening of a diseased ravaged tomato field in Apété, Ibadan. Nigeria. 2 <sup>nd</sup> Agriculture and Climate Change Conference. <a href="https://www.elsevier.com">https://www.elsevier.com</a> . <b>Etaware P. M.</b> , Oyetunji O. J., Etaware E. U., Adedeji A. D., & Odebode A. C.	March 26 <sup>th</sup> -28 <sup>th</sup> Sitges, Spain	2017
2.	Crude Plant Extracts: Potential bio-fertilizers and treatment against plant infection. International Conference on Enzymology and Molecular Biology. (Enzyme, 2019). <b>Etaware P. M.</b>	December 6 <sup>th</sup> -7 <sup>th</sup> Berlin, Germany	2019
3.	Sustaining Africa's economy through eco-friendly wastes transition to wealth generation. Faculty of Science International Conference (FOSIC 2020). <b>Etaware P. M.</b>	December 2 <sup>nd</sup> -4 <sup>th</sup> Lagos, Nigeria	2020
4.	Bio-mineralization of toxic wastes in Africa using nature's choicest cleansing agents. Faculty of Science International Conference (FOSIC 2020). <b>Etaware P. M.</b>	December 2 <sup>nd</sup> -4 <sup>th</sup> Lagos, Nigeria	2020
5.	Antimicrobial potentials of <i>Geophila obvallata</i> (Schumach) Didr. Leaf extracts against some medically important bacteria and fungi. 21 <sup>st</sup> International Conference on Genomics, Proteomics and Bioinformatics. Iserhienrhien O. L., Akpe A. R., & <b>Etaware P. M.</b>	August 25 <sup>th</sup> -26 <sup>th</sup> Webinar	2021
6.	Fungi-Induced morphological changes in infected melon ( <i>Colocynthis citrullus</i> Linn.). 6 <sup>th</sup> International Ecosummit (Ecosummit 2020). <a href="https://www.elsevier.com">https://www.elsevier.com</a> . <b>Etaware P. M.</b> (Accepted)	June 14 <sup>th</sup> -18 <sup>th</sup> Queensland, Australia	2024

## Section J: Staff Development

No.	Workshop/Conference/Seminar Presentation	Year
1.	1 <sup>st</sup> Annual International Conference. <b>Theme:</b> Science and Technology for Sustainable Economic Development: Global Trends, Challenges and Innovations: Faculty of Science, Delta State University of Science and Technology, Ozoro, Delta State, Nigeria	2024
2.	A seminar organized by the Faculty of Computing to train staff on quality research writing. Delta State University of Science and Technology, Ozoro, Delta State, Nigeria	2023
3.	A seminar organized by the research unit of Nigeria Maritime University to train staff on quality research writing held at the main auditorium of Nigeria Maritime University, Okerenkoko, Warri Southeast, Delta State, Nigeria	2019
4.	A workshop organized to train students on the operation of high-performance liquid chromatography (HPLC) and atomic absorption spectroscopy (AAS) machines at University of Ibadan, Ibadan, Oyo State, Nigeria.	2016
5.	A seminar organized by the Department of Statistics, University of Ibadan, to train students and staff in the use of basic statistical tools for quality research in sciences, held at the Faculty of Science Auditorium, University of Ibadan, Ibadan, Oyo, Nigeria.	2015

## Section K: Postgraduate & Undergraduate Researches, Industrial Training

<b>Research Project</b>	Plant Disease Epidemiology (Postgraduate)	2019
<b>Laboratory used</b>	<ol style="list-style-type: none"> <li>1. Plant Pathology and Mycology Laboratory, Department of Botany, Faculty of Science, University of Ibadan, Ibadan, Oyo, Nigeria</li> <li>2. Plant Pathology Laboratory, Cocoa Research Institute of Nigeria (CRIN), Idi-Ayunre, Oyo, Nigeria</li> </ol>	
<b>Supervisors</b>	Prof. A. C. Odebode, Dr O. I. Osowole and Dr A. R. Adedeji	
<b>Thesis title</b>	Black pod disease profiling and model structuring for prediction of future occurrence in <i>Theobroma cacao</i> Linn. In farms within Southwestern Nigeria (Doctoral Thesis)	
<b>Duration</b>	2014 - 2019	
<b>Description</b>	<ol style="list-style-type: none"> <li>1. Seasonal trend of BPD outbreak in Southwest, Nigeria.</li> <li>2. Underlying variation in the level of BPD outbreak</li> <li>3. Independent control measures adopted by farmers</li> <li>4. Collection of disease specimen (cocoa pods) and soil sample</li> <li>5. Climatological assessment and disease surveillance</li> </ol>	

6. Cocoa farm investigation and routine assessment
7. Development of ETAPOD (BPD forecast system)
8. ETAPOD program analysis, validation and implementation

<b>Research Project</b>	Tomato disease diagnosis and management (Postgraduate)	2012
<b>Laboratory</b>	Plant Pathology, Department of Botany, Faculty of Science, University of Ibadan, Ibadan, Oyo, Nigeria	
<b>Supervisor</b>	Prof. A. C. Odebode	
<b>Dissertation title</b>	Biocontrol of fungal diseases of cultivated tomato ( <i>Lycopersicon esculentum</i> Mill. synonym <i>Solanum lycopersicon</i> ) using medicinal plant extracts (Masters' Dissertation)	
<b>Duration</b>	2010 - 2012	
<b>Description</b>	<ol style="list-style-type: none"> <li>1. Field assessment and diagnosis of infected tomato plants</li> <li>2. Sample collection, sorting and symptoms profiling</li> <li>3. Isolation and identification of the pathogens</li> <li>4. Pathogenicity test using healthy seedlings (Koch's Postulate)</li> <li>5. Measurement of disease incidence and severity</li> <li>6. Bio-control formulation</li> <li>7. Laboratory analysis and <i>in vitro</i> disease management</li> <li>8. Screenhouse experiment (<i>In vivo</i> disease management)</li> <li>9. Measurement of agronomic parameters</li> <li>10. Data processing, analysis, interpretation and presentation</li> </ol>	
<b>Research Project</b>	Postharvest disease diagnosis and control (Undergraduate)	2007
<b>Laboratory</b>	Botany Lab, Department of Botany, Faculty of Science, Lagos State University, Ojo, Lagos, Nigeria	
<b>Supervisor</b>	Prof. O. A. Oke	
<b>Project title</b>	Postharvest deterioration of melon seeds ( <i>Colocynthis citrullus</i> L) - (Undergraduate Project Report)	
<b>Duration</b>	2006 - 2007	
<b>Description</b>	<ol style="list-style-type: none"> <li>1. Sample collection from Iyana-Iba, Ojo and Mammy Markets in Lagos, Nigeria</li> </ol>	

2. Sorting and characterization of disease infected melon seeds
3. Isolation, Identification, Pathogenicity test (Koch's Postulate)
4. Measurement of disease incidence and severity
5. Laboratory analysis using lipid inhibitors
6. Measurement of the pathogens' annihilation level
7. Data processing, analysis, interpretation and presentation.

<b>Research Project</b>	Industrial Training (SIWES)	2006
<b>Laboratory</b>	Virology, Bacteriology and Parasitology Labs, College of Medicine, LUTH, Idi-Araba, Lagos, Nigeria	
<b>Supervisors</b>	College of Medicine Staff	
<b>Title [4]</b>	Medical diagnosis of human ailments (SIWES Report)	
<b>Duration</b>	2005 - 2006	
<b>Description</b>	<ol style="list-style-type: none"> <li>1. Isolation and identification of Gram + and - Bacteria</li> <li>2. Isolation and identification of <i>Campylobacter</i> and <i>Helicobacter</i></li> <li>3. Isolation and identification of acid-fast bacillus (AFB)</li> <li>4. Virology: <ul style="list-style-type: none"> <li>▪ Abbot determinative assay</li> <li>▪ Enzyme linked Immunosorbent Assay (ELISA)</li> <li>▪ Western/Southern Blot for HIV/ AIDS</li> </ul> </li> </ol>	

## Section L: Job Experience

1. **Lecturer:** Southern Delta University, Ozoro, Delta State, Nigeria 2024+
2. **Lecturer:** Delta State University of Science and Technology, Ozoro 2023-2024
3. **Lecturer:** Nigeria Maritime University, Okerenkoko, Delta, Nigeria 2019+
4. **Asst. Lecturer:** Nigeria Maritime University, Okerenkoko, Delta, Nigeria 2018-2019
5. **Teaching and Research Assistant:** University of Ibadan, Ibadan, Oyo, Nigeria. 2015-2016
6. **Editor (Biology):** Mobile Knowledge Sol., Lekki Phase-1, Lagos, Nigeria. 2013-2015
7. **MTN Representative:** Telecoms Company c/o MacTay, Lagos, Nigeria. 06/2013

8. Physics, Introductory Technology & Further Maths, Paxton Int'l Sch., Lagos, Nig. 2007/2011
9. Physics & Introductory Technology, NODOS International School, Lagos, Nigeria. 2009-2010

## Referees

### **Prof. Oyedamola A. Oke**

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