

CURRICULUM VITAE

A. GENERAL INFORMATION

1. Full Name: AJAYI, Ebenezer Idowu Olatunbosun
2. Current Post/ Department: Associate Professor/ Department of Biochemistry
3. Place of Birth: Ado Ekiti
4. Age: 43 years
5. Gender: Male
6. Local Government Area: Ido/Osi
7. State of Origin: Ekiti
8. Nationality: Nigerian
9. Permanent Home Address: No 3/5, Ebelola House, Olorunsogo Community, Kajola Ijesa, Osun State
10. Current Postal Address: Department of Biochemistry, Osun State University, P. M. B. 4494, Oke Baale, Osogbo
11. Cell Phone Number: +234 803 729 9521
12. E-mail Address/Scholarly links: ebioenergetics@gmail.com
ebenezer.ajayi@uniosun.edu.ng
<https://www.researchgate.net/profile/Ebenezer-Ajayi>
<https://scholar.google.com/citations?user=iOlR0H8AAAAJ&hl=en>
13. Marital Status: Married
14. Number of Children (with ages): Three (3) – 11, 9, and 7 years
15. Institutions Attended (with dates)
 - i. University of Ibadan, Nigeria January 2009 – November 2015
 - ii. University of Ibadan, Nigeria May 2006 – May 2008
 - iii. University of Ado Ekiti, Nigeria April 2000 – November 2004
 - iv. Christ's School, Ado Ekiti, Nigeria September 1994 – June 1999
 - v. Methodist High School, Ilesa, Nigeria September 1993 – August 1994
 - vi. St. Mary's R.C.M. Prim. School, Ilesa August 1987 – June 1993
16. Pure Academic Qualifications (with dates)
 - i. Ph.D. Biochemistry 2015 University of Ibadan
 - ii. M.Sc. Biochemistry 2008 University of Ibadan/Ph.D. Grade
 - iii. B.Sc. (Hons) Biochemistry 2004 University of Ado Ekiti/Second Class Lower
 - iv. Senior School Leaving Certificate 1999 West Africa Examination Council/Distinctions & Credits
 - v. Primary School Leaving Certificate 1994 Osun State Government

17. Professional Qualifications (with dates)
 - Business Consultant and International Partner on Education of the World Angel Business Investors Forum (**WABF-BC/IP**) **2021**
 - Fellow of the Institute of Policy Management and Development (**FIPMD**) **2019**
18. Scholarship and Prizes at University, Secondary or Technical Level
 - i. Nigeria Artificial Intelligence Research Scheme (NAIRS) Grant of the National Information Technology Development Agency (NITDA) (Collaborator, NITDA/HQ/RG/AI9632010295) **2024**
 - ii. Interactive Course on Principles of Movement Award (International Parkinsons and Movement Disorder Society – MDS – Milwaukee, USA) **2022**
 - iii. Biomedical Materials and Diagnostic Devices Certificate Course Award (International Association of Advanced Materials – IAAM – Ulrika Sweden (€350) **2022**
 - iv. **ALBA-FKNE-YIBRO Diversity Grants for the FENS 2020 Virtual Forum (€310)**
<https://www.alba.network/list-alba-fkne-yibro-diversity-grant-awardees-2020> **2020**
 - v. II Brazil-Argentine Microfluidics Congress/ V Congreso de Microfluidica Argentina Participation Grant (worth AR\$2900) **2019**
 - vi. International Federation of Clinical Chemists Young Scientists Award (WorldLab Travel Scholarship to Durban South Africa) **2017**
 - vii. African Federation of Clinical Chemists Young Scientists Award (Association of Clinical Chemists of Nigeria Conference Grant) **2016**
 - viii. TETFund Institutional Research Grant (₦1,500,000) (Collaborator, UNIOSUN/TETFund/16/005) **2016**
 - ix. TETFund Institutional Research Grant (₦1,500,000) (Principal Investigator, UNIOSUN/TETFund/15/004) **2015**
 - x. Ekiti State Indigenous PhD Scholarship Award **2008**
 - xi. 4th Ph.D. Symposium Berlin-Brandenburg School for Regenerative Therapies Quiz Competition 1st Prize **2013**
 - xii. TETFund Conference Sponsorship for the 1st Biennial Conference of the Association of Clinical Chemists of Nigeria (ACCN) and Inaugural Congress of the Africa Federation of Clinical Chemists (AFCC) at the University of Ibadan **2009**
 - xiii. Certified Patriot Honours Award, 2001 National Essay Competition (CPVL-CH / CP.055) – “**Nigeria of My Dreams**” Campaign for Productive Visionary Leadership, Warri, Delta State, Nigeria **2002**
19. Training Programmes Attended
 - i. MDS African Parkinson’s Disease and Movement Disorders **2026** International Parkinsons and Movement Disorder Society (MDS),

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|------|--|-------------|---|
| | Conference (APMC) <i>Virtual</i> | | Milwaukee, USA |
| ii. | 3-Day Capacity Building Training | 2026 | Kings University, Ode Omu |
| iii. | MDS Developing World Disorders Course Education Program (DWEPE) Workshop, Ilorin-29025 | 2025 | International Parkinsons and Movement Disorder Society (MDS), Milwaukee, USA |
| iv. | Principles of Movement Disorders Course | 2022 | International Parkinsons and Movement Disorder Society (MDS), Milwaukee, USA |
| v. | 1 st IBRO-APRC Associate School on Advances in Nanoneurotherapeutics and Neurological Disorders | 2022 | ISF College of Pharmacy, Moga, Punjab |
| vi. | Biomedical Materials and Diagnostic Devices Course | 2022 | International Association of Advanced Materials (IAAM), Ulrika, Sweden |
| vii. | Global Health Course | 2011 | Global Health eLearning Centre Certificate of Course Completion in Global Health – Antimicrobial Resistance (Part 1) USAID / John Hopkins, Bloomberg Collaboration, USA. |
| ix. | Instrumentation Training | 2010 – 2011 | National Institute of Pharmaceutical Education and Research (NIPER), Punjab, India |
| 20. | Honours, Distinctions and Membership of Learned/Professional Societies (starting with the latest) | | |

Honours and Distinctions

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| i. | CONICET Postdoctoral Fellowship (Argentinian Ministry of Science, Technology and Productive Innovations), 3 years | 2018 |
| ii. | TETFund Academic Staff Training and Development Pre-Doc Research Training | 2012 |
| iii. | TWAS-DBT Sandwich Postgraduate Fellowship | 2009 |

Membership of Professional Bodies

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|-----|--|--------------|-------------|
| i. | Interconnections for Making Africa Great Empowered and Sustainable (IMAGES) Initiatives | Board Member | 2021 |
| ii. | International Parkinson's and Movement Disorders Society (MDS), USA | Member | 2020 |

iii.	National Neurotrauma Society (NNS), USA	Member	2020
iv.	Future of Additive Manufacturing Africa (FAMA)	Financial Secretary	2020
v.	LifeSi (3D Bioprinting & Microfluidics), Argentina	Associate	2020
vi.	Human Cell Atlas (HCA)	Member	2020
vii.	Nigerian Bioinformatics and Genomics Network – NBGNI774	Member	2019
viii.	African Society of Drosophilists (ASD)	Life Member	2017
ix.	International Society for Infectious Diseases (ISID)	Member	2017
x.	International Society for Ethnopharmacology (ISE), UK	Member	2015
xi.	Society for Mitochondrial Research and Medicine (SMRM), India – L/053/2012	Life Member	2012
xii.	Nigerian Institute for Biomedical Engineering (NIBE) – AS 117	Associate Member II	2011
xiii.	Global Youth Coalition on HIV / AIDS (GYCA), and TakingITGlobal Initiative	Member	2010
xiv.	Nigerian Society of Biochemistry and Molecular Biology (NSBMB/15/0401)	Member	2009
xv.	Association of Clinical Chemists of Nigeria (ACCN)	Associate Member	2009
xvi.	The Biochemical Society, London	Member	2009
xvii.	American Society of Biochemistry and Molecular Biology (ASBMB)	Member	2001

21. Previous Employment (general and specific experiences, with dates – starting with the most recent)

Work Experience in Osun State University

Department of Biochemistry:

Senior Lecturer (CONUASS 5/4)

Duties: Teaching, Counseling and Research, PG Coordinator (till July 2022); Acting Head of Department (August 2022 to July 2024 for B.Sc. and M.Sc., Ph.D. at the Department of Biochemistry; and B.Sc. Science Laboratory Technology – till July 2023); staff management/employment, administration and coordination of the Department of Biochemistry

Oct. 1, 2021 –
Till Sept. 30, 2024
(PFQ'd for Associate
Professorship – July
2025, effective Oct. 1,
2024)

Lecturer I Oct. 1, 2016 –
Duties: Research, Teaching, and Counseling, Level Coordinator, Sept. 30, 2021
Examinations Officer PG Coordinator (till March 2018),
Head of Unit (both in B.Sc. and M.Sc. Biochemistry Unit,
Chemical Sciences Department till March 2018),
Sub-Dean Student Affairs (till March 2018)

Lecturer II Oct. 1, 2013 –
Duties: Teaching, Counseling and Research, Sept. 30, 2016
Level Coordinator, Examinations Officer,
Staff Adviser (in B.Sc. Biochemistry Unit, Chemical Sciences Department)

Assistant Lecturer Aug. 10, 2009 –
Duties: Teaching, Counseling and Research, Sept. 30, 2013
Level Coordinator, Examinations Officer,
Staff Adviser (in B.Sc. Biochemistry Unit, Chemical Sciences Department)

Work Experience in Other Universities
Kings University, Ode Omu June 2021 – July 2022
Duties: Part-Time Senior Lecturer
Department of Chemical Sciences (Biochemistry Unit): Biochemistry courses

Evolutionary & Medical Genetics Nov. 2012 – July 2013
Centre for Cellular & Molecular Biology
Hyderabad – 500 007, India
Duties: 2012 TETF AST&D Pre-Doc Research Training
Team member: Mitochondrial Cytopathies & Cancer Genomics

Department of Pharmacology & Toxicology Aug. 2012 – Oct. 2012
National Institute of Pharmaceutical Education and Research (NIPER)
S. A. S. Nagar, Mohali, Punjab – 160062, India.
Duties: 2012 TETF AST&D Pre-Doc Research Training
Team member: Signal Transduction & Cardiovascular Disorders

Department of Pharmaceutical July 2010 – June 2011
Biotechnology/Biotechnology (PTBT),
National Institute of Pharmaceutical Education and Research (NIPER)
S. A. S. Nagar, Mohali, Punjab-160062, India.
Duties: 2009 DBT-TWAS Sandwich Ph.D. Scholar:
Team member: Xanthine Oxidase research group; Biocatalysis research group.

Department of Biochemistry

Aug. 2008 – Aug. 2015

University of Ibadan, Ibadan, Oyo State, Nigeria

Duties: Ph.D. Student: Co-supervision of research projects, demonstration of assays/practicals to B.Sc. and M.Sc. Biochemistry students.

Department of Biochemistry

Aug. 2006 – May 2008

University of Ibadan, Ibadan, Oyo State, Nigeria

Duties: M.Sc. Student: Demonstration of assays/practicals to B.Sc. (Biochemistry), MBBS and BDS students.

Biochemistry Laboratory

October 2002

Department of Biochemistry, University of Lagos

Idi-Araba, Lagos State, Nigeria.

Duties: Industrial Attachee: Preparation of buffers, invigilation of tests, recording of continuous assessment scores and understudying at practical sessions.

Work Experience Outside the University System**Molecular Biosciences Ltd**, 124 M. C. C. Road,

March 2005 – Feb. 2006

Calabar, Cross Rivers State, Nigeria

Duties: Graduate Research Assistant: Macro- and micro-propagation (i.e. on field and by tissue culture) of important plants such as *Artemisia annua* L., banana, cassava and pineapple (N.Y.S.C. assignment)

UNICEF / NYSC HIV / AIDS Collaboration

March 2005 – Feb. 2006

Calabar, Cross Rivers State, Nigeria

Duties: Peer Educator Trainer (PET): Enlightenment and counselling on HIV /AIDS and social issues to young students and community members of Cross Rivers State; using audio and visual aids as well as arts and drama.

Christore Ventures, 15 State Hospital Road, Arena

Nov. 2004 – Feb. 2005;

Shopping Plaza, Similoluwa, Ado-Ekiti, Ekiti State,

March 2006-June 2006

Nigeria

Duties: Sales Representative: Sales of Christian and academic books, tapes, CDs, (auto) biographies and gift items.

International Breweries Plc, Omi-Asoro, Ilesa,

Mar. 2003 – May 2003

Osun State, Nigeria

Duties: Industrial Attachee: Production of malt drink and lager beer, quality control of raw, semi-processed and the finished products, monitoring of microbiological standards.

Omega Academy, Bawa Road, Ado-Ekiti
Ekiti State, Nigeria

Feb. 2001

Duties: Tutor: Teaching Chemistry to S.S.S. 2 students in preparation for General Certificate Examination (GCE), Nov. /Dec. 2001

22. Present Employment, Status and Salary (indicating level and step)

Associate Professor (CONUASS 6/3)

Oct. 1, 2024 –

Duties: Teaching, Counseling and Research,

Till Date

PG Coordinator (July 2024 till date); teaching and research

Representative of Congregation on the Floor of Senate

(July 2024 till date)

23. Research Interests and Commissioned Projects (completed, starting with the latest; in progress, list)

Funded Research

Nigeria Artificial Intelligence Research Scheme (NAIRS) Grant of the National Information Technology Development Agency (NITDA) (Collaborator, NITDA/HQ/RG/AI9632010295) **2025**

Non-funded/self-sponsored Research

1. Evaluation of certain natural products for porcine pancreatic lipase and human pancreatic amylase inhibitory effects, *in vitro*. **2025**
2. Molecular screening of antimicrobial silver nanoparticles from indigenous African plants on wound-causing/-infecting Gram-negative microorganisms and tissue regeneration in skin fibroblasts. **Ongoing**
3. Evaluation of certain natural products for the phenotypic control of obesity and diabetes in the fruitfly. **Ongoing**
4. Targeting *Plasmodium berghei* apicoplast with African Polyherbal Formulations. **Ongoing**
5. Protective potentials of flavonoid fractions of *Nauclea latifolia* and *Bombacopsis bunopogensis* in ulcerative colitis. **Ongoing**
6. Trypanocidal and anti-leishmanial properties of extracts isolated from indigenous African plant parts. **Ongoing**

24. List of Publications with Details of Titles, Publishers, Journals with Dates and Pages (where applicable)

i. Thesis/Dissertations

1. Chemical composition, phytochemical screening and antimicrobial activities of Bruce (*Nauclea latifolia*) plant. **Project (B. Sc. Biochemistry, University of Ado Ekiti)**

2. Effect of artesunate on rat liver mitochondrial membrane permeability transition pore opening *in vivo*. **Project (M. Sc. Biochemistry, University of Ibadan)**
3. Modulation of mitochondrial membrane permeability transition in selected organs of type 2 diabetic rats by the leaf extract of *Manihot Esculenta* (Crantz). **Project (Ph.D. Biochemistry, University of Ibadan)**
- ii. **Book Chapters**
 1. Faleke H. O., Alimi-Adeniran O. O., Oroye A. R., Awope O. R., Sowale O. O., Molehin O. R., Attah A. F., **Ajayi E. I. O.** (2017). Hormetic modulation of wound healing, catalase and cytochrome oxidase activities by cationic peptides of some African plant seeds. In: Translating Research Findings into Policy in Developing Countries: Health, Infection and Treatment - Contributions from Humboldt Kolleg Osogbo-2017, Ed Olusola Ojurongbe. Germany: Lambert Academic Publishing; 2017. pp. 145-156.
 2. **Ajayi E. I. O.**, Modo E. U., Kiakubu O. T, Molehin O. R. (2018). Diabetes care using *Nauclea latifolia* Sm, *Manihot esculenta* Crantz and other natural products; Chapter 45 In book: Bioactive Food as Dietary Interventions for Diabetes, 2nd Edition. Elsevier. Eds Ronald Watson and Victor Preedy.
 3. **Ajayi E. I. O.**, Molehin O. R., Adefegha S. A., Fakayode A. E., Oladele J. O., Olawumi S. A. (2021). Nutritional regulation of metabesity. In book: Nutrition, Food and Diet in Ageing and Longevity. Springer, Eds Rattan Suresh I. S., Kaur Gurcharan (ISBN 978-3-030-83017-5).
 4. **Ajayi E. I. O.**, Oladele J. O., Nkumah A. O. (2023). Application of algae in wound healing. In book: Next-Generation Algae: Volume II: Applications in Medicine and the Pharmaceutical Industry. Pp 251-284. John Wiley & Sons, Inc. Eds: Charles Adetunji, Daniel Hefft.
 5. **Ajayi E. I. O.**, Oladele J. O., Babalola A. D. (2023). Application of nanochitosan in enzyme immobilization. In book: Next Generation Nanochitosan: Applications in Animal Husbandry, Aquaculture and Food Conservation, Chapter 17, Pp 235-272. Eds: Charles Adetunji, Daniel Hefft, Jaison Jeevanandam, Michael Danquah. Elsevier (ISBN 9780323855938). <https://doi.org/10.1016/B978-0-323-85593-8.00037-0>.
 6. Molehin O. R., Adeniyi O. S., Olowomofe T. O., **Ajayi E. I.** (2023). Nanochitosan derived from marine endolichenic fungi. In book: Next Generation Nanochitosan: Applications in Animal Husbandry, Aquaculture and Food Conservation, Chapter 10, Pp 125-136. Eds: Charles Adetunji, Daniel Hefft, Jaison Jeevanandam, Michael Danquah. Elsevier B. V., Netherlands (ISBN 9780323855938) <https://doi.org/10.1016/B978-0-323-85593-8.00005-9>.
 7. **Ajayi E. I. O.** (2024). Food preservation, spoilage, and food adulteration. In book: Nutrition and Diet in Health, 1st Ed., Chapter 5. Eds: Oladiji A. T., Oladele J. O., Ajayi E. I. O. CRC Press, Taylor & Francis (ISBN 9781032421711).
 8. **Ajayi E. I. O.**, Molehin O. R., Ohunayo A. S., Fakayode A. E., Nkumah A., Olayinka O., Adebayo A. A. (2024). Plant-based short and cyclo-peptides. In book: Nutrition and Diet in

- Health, 1st Ed., Chapter 9. Eds: Oladiji A. T., Oladele J. O., Ajayi E. I. O. CRC Press, Taylor & Francis (ISBN 9781032421711).
9. **Ajayi E. I. O.**, Nkumah A., Faleke H. O. and Saini P. (2026). Unveiling the potential of litchi seed starch. In book: Unconventional Starch Sources for Sustainable Bioplastics (1st ed.). CRC Press. Saini, P., & Ahmed, M. (Eds.). Pp 316.
 10. Ayiti S. K., Olatunbosun B. O., and **Ajayi E. I. O.** (2026). Fruit wastes as promising sources of starch. In book: Unconventional Starch Sources for Sustainable Bioplastics (1st ed.). CRC Press. Saini, P., & Ahmed, M. (Eds.). Pp 316.
 11. **Ajayi E. I. O.**, Oladele J. O., Babatunde I. O., Imere O. U. H. and Adewole A. T. (2026). African medicinal formulations for health and longevity. In book: Supplements and Drugs for Healthy Longevity: Healthy Ageing and Longevity, Vol 22. Springer, Cham. Eds: Rattan, S.I.S., Gezer, C.
 12. **Ajayi, E. I. O.**, Adewole A. T., Olarewaju O. I., Fafioye R. O., Oyelami K. O., Esezobor I. K., Muhammad S. and Malata M. M. (2026). Neurobiology of obesity and aging: Bridging the gap between metabolic and brain health. In: Kaur, G. (eds) Obesity, Ageing and Longevity. Healthy Ageing and Longevity, vol 24. Springer, Cham. https://doi.org/10.1007/978-3-032-24097-2_5.
- iii. Articles in Learned Journals**
12. Anyasor G. N., **Ajayi E. I. O.**, Saliu J. A., Ajagbonna O., Olorunsogo O.O. (2009). Artesunate opens mitochondrial membrane permeability transition pore. Ann Trop Med Public Health, 2(2): 53-57. Publisher: Africa Health Research Organization (AHRO), Scotland.
 13. Adeleke M. A., **Ajayi, E. I. O.**, Oyeniya, T. T., Ajiboye, A. A., Ayoade, A. O., Ilori, T. S. (2013). Phytochemical and anti-plasmodial screening of three selected tropical plants used for the treatment of malaria in Osogbo, Southwestern Nigeria. J. Agric. Sc & Tech. (JAGST) 15(2):16 – 21. Publisher: Jomo Kenyatta University of Agriculture and Technology.
 14. **Ajayi E. I. O.**, Ogungbuj E. T., Nojeem G. (2015). Analgesic potential of certain traditional African herbal extracts in high fat diet-manipulated hyperglycaemic rats. Ife J. Sc. (IJS) 17(2): 511-517. Publisher: Faculty of Science, University of Ife.
 15. **Ajayi E. I. O.**, Modo E. U., Adebamowo A. O., Banerjee U. C., Tewe O. O. and Olorunsogo O. O. (2016). Inhibitory activity of ethanol extract of *Manihot esculenta* on mitochondrial membrane permeability transition pore and caspase 3 in type 2 diabetes mellitus. Int. J. Biochem. Res. & Rev. 9(4): 1-10. Publisher: SCIENCEDOMAIN International.
 16. **Ajayi E. I. O.**, Popoola G. and Ojediran E. (2016). Wound healing potential of *Nauclea latifolia* and *Manihot esculenta* leaf extracts in type 1 diabetic rats. Afr J Tradit Complement Altern Med. (2016) 13(1):1-5. Publisher: African Traditional Herbal Medicine Supporters Initiative (ATHMSI).
 17. Adeleke M. A., Muhibi M. A., **Ajayi E. I. O.**, Idowu O. A., Famodimu M. T., Olaniyan S. O., Hassan A. N. (2016). Dengue virus specific Immunoglobulin G antibodies among patients with febrile conditions in Osogbo, Southwestern Nigeria. Tropical Biomedicine 33(1):1-7. Publisher: Malaysian Society of Parasitology and Tropical Medicine.

18. Akinde S. B., **Ajayi E. I. O.**, Awojide O. I., Azeez O. K., Osunsanmi K. O., Olabiran O. A. and Fowosire A. A. (2016). FTIR characterization and *in vitro* activities of *Bombacopsis buonopozense* and *Nauclea latifolia* leaf extracts against bacteria isolated from cattle rumen waste and vegetable farm irrigation water. UNIOSUN J. Sc. 1(1): 46–55. Publisher: Osun State University.
19. **Ajayi E. I. O.**, Adeola A. O. and Ajayi O. B. (2016). Preliminary phytochemical screening and antimicrobial activities of fruit, fruit skin, stem and root of Bruce plant. UNIOSUN J. Sc. 1(1): 74 – 81. Publisher: Osun State University.
20. Molehin O. R., Oloyede O. I. and Ajayi E. I. O. (2017). GC–MS analysis of bioactive compounds in three extracts of *Clerodendrum volubile* P. Beauv leaves. J. Med. Plants. Stud. 5(5): 191-195. Publisher: AkiNik Publications, India.
21. **Ajayi E. I. O.**, Adeleke M. A., Adewumi T. Y. and Adeyemi A. A. (2017). Antiplasmodial activities of ethanol extracts of *Euphorbia hirta* whole plant and *Vernonia amygdalina* leaves in *Plasmodium berghei*-infected mice. Journal of Taibah University for Science (JTUSCI) 11(6): 831-835. Publisher: Taylor and Francis.
22. **Ajayi E. I. O.**, Agarwal A., Banerjee U. C. and Olorunsogo O. O. (2017). Ethanol extract of *Manihot esculenta* leaf: A potential source of antioxidant, xanthine oxidase and lipase inhibitors. Journal of Experimental and Molecular Biology (formerly Analele Stiintifice ale Universitatii "Alexandru Ioan Cuza" din Iasi Sec. II a. Genetica si Biologie Moleculara) 18(1): 17-23. Publisher: Alexandru Ioan Cuza University of Iasi, Romania.
23. Akinde S. B., Olaitan J. O., **Ajayi E. I. O.**, Adeniyi M. A., Ige O. O., Adebooye O. C. (2018). Fungal quality and molecular characterization of aflatoxin-producing *Aspergillus* species in irrigation water and fresh vegetables in Southwest Nigeria. Jordan Journal of Agricultural Sciences 14(1):51-70. Publisher: The University of Jordan, Jordan.
24. **Ajayi E. I. O.**, Iyoha E. A., Abdulazeez F. O. (2018). Butanol extract of *Manihot esculenta* leaf modulated cigarette butt leachate-mediated liver mitochondrial membrane permeabilization and its functional capacity. Research Journal of Health Sciences (RJHS) 6(1): 26-34. Publisher: College of Health Sciences, Osun State University.
25. Azeez L., Lateef A., Wahab A. A., Rufai M. A., Salau A. K., **Ajayi E. I. O.**, Ajayi M., Adegbite M. K., Adebisi B. (2019). Phytomodulatory effects of silver nanoparticles on *Corchorus olitorius*: its antiphytopathogenic and hepatoprotective potentials. Plant Physiology et Biochemistry 136:109-117. Publisher: Elsevier.
26. Mishra A., Sundaravadivel P., Tripathi S. K., Jha R. K., Badrukhiya J., Basak N., Anerao I., Sharma A., **Ajayi E. I.**, Mishra A., Pandey S., Kumar U., Singh S., Nizamuddin S., Tupperwar N. C., Jha A. N., Thangaraja K. (2019). Variations in macrophage migration inhibitory factor gene are not associated with visceral leishmaniasis in India. Journal of Infection and Public Health 12:380-387. Publisher: Elsevier.
27. **Ajayi E. I. O.**, Molehin O. R., Oloyede O. I., Kumar V., Amara V. R., Kaur J., Karpe P., Tikoo K. (2019). Liver mitochondrial membrane permeability modulation in insulin-

- resistant, uninephrectomised male rats by *Clerodendrum volubile* P. Beauv and *Manihot esculenta* Crantz. *Clinical Phytoscience* 5:31 - 39. Publisher: Springer Nature.
28. Vara-Messler M., Mukdsi J. H., Osieki N., Benizio E., Repossi G., **Ajayi E. I. O.**, García N. H. (2020). Eicosapentaenoic acid prevents salt sensitivity in diabetic rats decreasing oxidative stress. *Nutrition* 72:110644. Publisher: Elsevier.
 29. Atanda J. A., Fadiya O. V., Muhibi M. A., Adeleke M. A., **Ajayi E. I. O.** (2020). Packed cell volume and Vitamin D levels in visceral leishmaniasis and diabetes mellitus co-morbidity among adults in Osun State, Southwestern Nigeria. *Archive of Science & Technology* 1:123 – 136. Publisher: Precious Cornerstone University.
 30. **Ajayi E.I.O.**, Molehin O.R., Iyoha E.I., Tallapragada S.P., Oloyede O.I., Tikoo K.B. (2021). Postmortem mitochondrial membrane permeability transition assessment of apoptotic cell death in brain and liver of diabetic, insulin-resistant, ovariectomised rats. **IBRO Neurosci Rep.** 11:156-163. Publisher: International Brain Research Organisation, Elsevier.
 31. Olaniyan, O.P., **Ajayi, E.I.O.** (2021). Phytochemicals and *in vitro* anti-apoptotic properties of ethanol and hot water extracts of Cassava (*Manihot esculenta* Crantz) peel biogas slurry following anaerobic degradation. *Clinical Phytoscience* 7(77):1-11. Publisher: Springer Nature.
 32. Adejumo, A.L., Azeez, L., **Ajayi, E.**, Atere, T.G., Aderibigbe, F.A., and Adetoro, R.O. (2022). Characterization of acid soluble collagen from catfish (*Clarias gariepinus*) skin, its amino acid composition and its thermal stability. *West Indian Journal of Engineering* 44(2):14-19. Publisher: Faculty of Engineering, University of the West Indies, St. Augustine, Trinidad.
 33. Adetunji J. B., Banji O. C, **Ajayi E. I.**, Adekale A. I., Adeyomoye O. I. (2022). Anti-inflammatory efficacy of *Corchorus olitorius* seed and its effects on some biochemical and haematological parameters in egg albumin. *Archive of Science & Technology* 3(1): 95 – 107. Publisher: Precious Cornerstone University.
 34. Cabral P. D., Silva G. B., Baigorria S. T., Juncos L. I., **Ajayi E. I. O.** and García N. H. (2022). Nitric oxide-inhibited chloride transport in cortical thick ascending limbs is reversed by 8-iso-prostaglandin-F2 α . *Kidney Res. Clin. Pract.* 41(6):699-706. Publisher: The Korean Society of Nephrology.
 35. Usman A., Balogun O., Shuaib B. I., Musa B. O. P., Yusuf A. A., and **Ajayi E. I. O.** (2023). Prevalence of cytopenia and its correlation with immunosuppression in naïve HIV-1 infected patients initiating first-line antiretroviral therapy: A pilot study. *Infect Chemother.* 55(4): 479-489. Publisher: The Korean Society of Infectious Diseases, Korean Society for Antimicrobial Therapy, and The Korean Society for AIDS.
 36. Oladele O. T., Oladele J. O., **Ajayi E. I. O.**, Alabi K. E., Oyeleke O. M., Atolagbe O. S., Olowookere B. D., and Bamigboye M. O. (2024). Bioactive composition and protective properties of *Talium triangulare* in dextran sodium sulphate-induced ulcerative colitis in rats. *Pharmacological Research - Modern Chinese Medicine*, 10:100344. Publisher: Chinese Pharmacological Society.

37. Oladele, J. O., Ojuederie, O. B., Oladele, O. T., **Ajayi, E. I. O.**, Olaniyan, M. D., Atolagbe, O. S., Okoro O. E., Adewale O. O. and Oyeleke, O. M. (2024). Gastroprotective mechanism of *Talinum triangulare* on ethanol-induced gastric ulcer in Wistar rats *via* inflammatory, antioxidant, and H⁺/K⁺-ATPase inhibition-mediated pathways. *Drug and Chemical Toxicology*, 1–14. Publisher: Taylor & Francis.
38. Obasi J. N. and **Ajayi E. I. O.** (2025). Preliminary assessment of temperature, selected chemical modifiers and ions on frog heartbeat regulation. *Res. J. Health Sci.* 13(2): 215-222. Publisher: College of Health Sciences, Osun State University, Osogbo, Nigeria.
39. Oladele J. O., **Ajayi E. I. O.**, Babatunde I. O., Awosanya O. O., Oladele T. O., Atolagbe O. S., Adewale O. O. and Oyedotun M. O. (2025). Neuroprotective efficacy of *Talinum triangulare* in cadmium-induced neurotoxicity: Involvement of antioxidant defense, anti-inflammatory, dopaminergic, and cholinergic systems. *Metabolic Brain Disease*, 40(6):237. Publisher: Springer.
40. Adekomi, D.A., Ogungbemi, D.I., Ibiyeye, R.Y., Adewale, O.O., Adekeye, O.O., **Ajayi, E.I.O.**, Enye, L.A., Edem, E.E., Onaolapo, A.Y., Adeniyi, T.D., Aderemi, A.V., Osuntokun, O.S., Ajadi, T.O., Adedayo, G.J., and Ajeleti, A.O. (2025). Pentazocine exposure elicits motor-social, neurochemical, and neuromorphological deviations in the cerebellum of juvenile male BALB/c mice. *Nig. J. Neurosci.* 16(3), 98-115. Publisher: Nigeria Society for Neuroscience.
41. Aderemi, A.V., Adesoye, O.J., Ayodabo, A.E., Idowu, O.G., Tokunbo, O.S., Olasunkanmi, A.T., Adeleke, I.A., **Ajayi, E.I.O.** (2025). Comparative effects of *Monodora tenuifolia* seed extract and Lirich® on alcohol-induced liver and kidney injury in rats. *Res. J. Health Sci.* Vol. 13(4): 448-460. Publisher: College of Health Sciences, Osun State University, Osogbo, Nigeria.
42. Fafioye R. O., **Ajayi E. I. O.**, Ajilore B. S., Akinde S. B., Adeagbo O. Y. (2025). Association between Tcf7l2 Rs7903146 gene and cardiovascular disease development among diabetic patients attending Primary Health Centers in Osogbo, Nigeria. *Pan African Journal of Life Sciences* 9(3): 624 –630. Publisher: Ladoke Akintola University of Technology, Ogbomoso, Oyo State, Nigeria.
43. **Ajayi E. I. O.**, Fadiya V. O., Adeyemi J. A., Muhibi M. A., Adeleke M. A., Usman A. (2025). Screening and co-morbid association of visceral leishmaniasis and diabetes in Osun State, Nigeria. *Nigerian Journal of Biochemistry and Molecular Biology.* 40(1): 67-72. Publisher: Nigerian Society of Biochemistry and Molecular Biology.
44. Adekomi D. A., Ajani H. A., Ibiyeye R. Y., Adekeye A. O., Enye L. A., Edem E. E., Adegoke A. A., Adewale O. O., **Ajayi E. I. O.**, Adeniyi T. D., Osuntokun O. S., Idowu O. K., Hamed M. A., Dare B. J., Aderemi A. V., Omotoso D. R., Atere T. G., Babatunde D. E., Ojo J. H., Ojo G. B., and Adekilekun A. T. (2026). Behavioural, neurochemical, and neurohistological effects of bisphenol A and vanadium following chronic co-administration in mice. *IBRO Neuroscience Reports*, 2026. Publisher: International Brain Research Organization.
45. **Ajayi E. I. O.**, Fadiya V. O., Atanda J. A., Muhibi M. A., Adelekwe M. A., Usman A. (2025). Screening and co-morbid association of visceral leishmaniasis and diabetes in Osun State, Nigeria. *Nig. J. Biochem. Mol. Biol.* 41(1): 67-72.

46. Ozabor P. T., Oladele J. O., Ajayi E. I., Sholagbade G. A., Agoi O. O., and Fadahunsi I. F. (2026). Improvement of physicochemical properties and in vitro anti-inflammatory potentials of fermented cereals through synergistic fermentation and formulations. Food Bioscience 78:108498. Publisher: Elsevier
- iii. **Referred Conference Proceeding**
47. **Ajayi E. I. O.**, Adetunji B. J., Adeleke M. A., Onilejin A. O., Idrees M. O., Babalola T. E. (2020). Emerging dichlorvos-based air freshener pertube kidney function in male albino rats. In: Innovations in Food Technology – Current Perspectives and Future Goals, Eds Pragya Mishra, Raghvendra Raman Mishra, Ratna Shanker Mishra, Charles Oluwaseun Adetunji. Vol. 1. 1st ed. India: Springer; 2020. pp. 466-476. Springer.
- iv. **Review Articles**
48. Atanu F. O., Ebiloma U. G. and **Ajayi E. I.** (2011). A review of the pharmacological aspects of *Solanum nigrum* Linn. Biotech & Mol Biol Rev 6(1): 1-7. Publisher: Academic Journals
49. **Ajayi E. I. O.**, Ajayi O. I. and Iyoha E. A. (2015). Current scene and scenario of visceral leishmaniasis in Nigeria. Int. J. Tech. Adv. & Res. 1: 83-86. Techno Consultancy Services, India.
50. Perez H. A., Allende G. F., **Ajayi E. I. O.**, Portal D. J., Garcia N. H. (2018). Atherosclerosis plaque area reduction: working hypothesis to prevent cardiovascular event. Comparative Clinical Pathology 28:907-914. Publisher: Springer Nature.
51. Oladele J. O., **Ajayi E. I. O.**, Oyeleke M. O., Oladele O. T., Olowookere B. D., Adeniyi B. M., Oyewole I. O., Oladiji A. T., (2020). A systematic review on COVID-19 pandemic with special emphasis on curative potentials of Nigeria based medicinal plants. Heliyon 6(9): e04897. Publisher: Elsevier.
52. **Ajayi E. I. O.**, Babatunde I. O. and Oladele J. O. (2024). Carotenoids and their formulation supplements in Alzheimer's disease. Life Neuroscience, 2024; 2(1): 1-24. Publisher: MedSci Publications Group, Germany.
25. Major Conferences and Workshops Attended with Paper read (starting with the latest)
1. Olawumi S. A., Adeyemi H. A., Adebayo A. B., Osayomwanbo O. D., Mutairu H. O., Adebisi F. E. and **Ajayi E. I. O.** (2025). Environmental degradation, bioactive resource loss, and the therapeutic Promise of *Zingiber officinale* alkaloids in diabetic wound healing: A one health approach; Intersection of Genomics, One Health & Climate Change in Emerging Disease Control by Humboldt Research Hub – Centre for Emerging & Re-emerging Infectious Diseases (HRH – CERID), Ladoke Akintola University, Ogbomoso, Oyo State; 26th – 30th October 2024.
2. **Ajayi E. I. O.**, Ayodele A. P., Olatunbosun B. O., Hassan A. O., Salawu A. A., Onibokun O. R., Jayeoba B. O., Awe D. E., Oladipo O. A. (2022). Green synthesis, spectroscopic analyses and free radical scavenging properties of silver nanoparticles from selected whole plants. 1st Faculty of Science International Conference, Advance of Science in CoVID-19 era 2022, Adeleke University, Ede, Osun State, Nigeria. 12th – 14th April, 2022.

3. **Ajayi E. I. O.** (2020). Antileishmanial efficacy of 4 African vegetal extracts. 2nd African Symposium and 3rd The World Academy of Sciences (TWAS) Young Affiliates Network (TYAN) International Thematic Virtual Workshop on Big Data, Analytics and Machine Intelligence themed: Data Science for Solution-driven and Sustainable Response to current developing world challenges, 1st December, 2020.
4. Olaniyan O. P., **Ajayi E. I. O.** (2019). Anti-apoptotic properties of ethanol and water infusion extracts of cassava biogas slurry. Keystone Symposium: T3, Why so many ways to die? Apoptosis, Necroptosis, Pyroptosis and Beyond, at Casa Grande Hotel, Guarujá, São Paulo, Brazil, Friday, 22nd November, 2019.
5. Olaniyan O. P., **Ajayi E. I. O.**, Adewale O. O. and Akinde S. B. (2019). Production of Biogas from three different substrates. Exhibition and competition event organized by the Centre for Entrepreneurship as part of UNIOSUN's 8th Convocation ceremony, at Olagunsoye Oyinlola Main Auditorium, UNIOSUN, Tuesday, 17th September, 2019.
6. **Ajayi E. I. O.**, Fadiya O. V., Atanda J. A., Muhibi M. A., Adeleke M. A. (2019). Comparative seroepidemiological surveillance of visceral leishmaniasis and its association with diabetes co-morbidity in Osun State, Nigeria. 23rd IFCC-EFLM 2019 European Congress of Clinical Chemistry and Laboratory Medicine, at Centre de Convenciones Internacional de Barcelona (CCIB), Carrer Willi Brandt, Barcelona, Catalonia, Spain, 22nd May, 2019.
7. **Ajayi E.I.O.**, Molehin O.R., Iyoha E.I., Tallapragada S.P., Oloyede O.I., Tikoo K.B. (2019). Postmortem mitochondrial membrane permeability transition assessment of apoptotic cell death in brain and liver of diabetic, insulin-resistant, ovariectomised rats. 14th SONA/17th NSN Conference Lagos, Nigeria, at Sheba Center, Ikeja, Lagos, Nigeria. **IBRO Reports 7 Suppl H7: 51**, Tuesday, 26th March, 2019. DOI 10.1016/j.ibror.2019.09.101.
8. **Ajayi E. I. O.**, Gopalkrishna P., Thangaraj K. (2018). A similar novel single-point substitution identified in apparently healthy individuals of African and Asian descents. 42nd Annual Conference of the Genetics Society of Nigeria: Genetics for Nation Building, J. N. Garba Hall of the Nigerian Defence Academy, Kaduna, Nigeria. 9th – 13th December, 2018.
9. Juárez M., Vejares M., Strubia A., **Ajayi E.**, Konigheim B., Aguilar J., Colloca C., Strauss M., Rivarola W. (2018). *In vitro* parasitocidal effects of *Plantago barbata* (Plantaginaceae) and *Empetrum rubrum* (Empetraceae) on *Leishmania amazonensis*. DDNDIC 2018 - Fourth Scientific Meeting of the Research Network Natural Products against Neglected Diseases (ResNet NPND), Facultad de Farmacia y Bioquímica de la Universidad de Buenos Aires, Argentina. 4th – 6th December, 2018.
10. **Ajayi E. I. O.**, Adetunji B. J., Adeleke M. A., Onilejin A. O., Idrees M. O., Babalola T. E. (2018). Emerging dichlorvos-based air freshener perturbed kidney function in male albino rats. International Conference & Integrated Meeting (Medicine, Food, Pharma and Agro Technology: INCON-MFPA-2018) by DDU Kaushal Kendra (Banaras Hindu University, Varanasi), RGSC, Barkachha, Mirzapur, India. 19th – 20th February, 2018.

11. **Ajayi E. I. O.**, Okiemen M., Uche C. C., Adewale A. D. (2017). Ethanolic extracts of *Nauclea latifolia*, *Manihot esculenta* leaf and leaf stalk normalized early symptoms of type 1 diabetes in alloxan-induced diabetic rats. *Clin Chem Lab Med* 55, *Special Suppl*, pS1240. Poster Abstracts, IFCC WorldLab 2017 – Durban, South Africa, 22nd – 25th October 2017. DOI 10.1515/cclm-2017-7041.
12. **Ajayi E. I. O.** (2017). Structural elucidation of the major compounds of the leaf of *Manihot esculenta* Crantz using spectroscopic techniques. Alexander von Humboldt-Foundation - Humboldt Kolleg, Oye-Ekiti 2017 Bursary: Convergence of qualitative and quantitative research approach. 11th – 15th September, 2017.
13. **Ajayi E. I. O.** (2017). Challenges facing Biochemistry and Molecular Biology Education in Nigeria Universities. IUBMB-FEBS New Horizons in Biochemistry and Molecular Biology Education Conference, Weizmann Institute, Rehovot, Israel. 6th – 8th September, 2017.
14. **Ajayi E. I. O.**, Sobulo O. B., Okoye O. A. (2017). Antiapoptotic protection of *Bombacopsis buonopogense* leaf extracts against perturbation of liver mitochondrial membrane permeability transition pore opening by cigarette butt leachate, *in vitro*. International Conference of Interdisciplinary Sciences (ICIS-2017) by Phenome Research Foundation, Varanasi, India. 16th – 17th July, 2017.
15. **Ajayi E. I. O.**, Adeleke M.A., Muhibi M.A., Fadiya O.V. (2017). Hematological and kidney profile of patients co-infected with enteric and dengue fever in Osogbo, Southwest Nigeria. *Clin. Chem. Lab. Med.* 55, *Special Suppl. 1*, S888. 22nd IFCC-EFLM European Congress of Clinical Chemistry and Laboratory Medicine, EuroMedLab Athens 2017, Megaron - The Athens Congress Center, Greece. 11th -15th June, 2017. DOI 10.1515/cclm-2017-5026.
16. **Ajayi E. I. O.** and Awope O. R. (2017). The effects of peptides of *Chrysophyllum albidum*, *Citrullus lanatus* cotyledons on rat hepatocyte regeneration, catalase and cytochrome c oxidase activities, and bacteriocin-producing Gram-negative bacteria. Alexander von Humboldt-Foundation - Humboldt Kolleg, Akure, Nigeria. 2017 Bursary: "Functional Foods and Nutraceuticals - Translating the Knowledge of Food to Good Health Care Delivery in Developing World." 2nd – 6th April, 2017.
17. **Ajayi E. I. O.**, Faleke H. O., Alimi-Adeniran O. O., Oroye A. R., Awope O. R., Sowale O. O. (2017). Hormetic modulation of wound healing, catalase and cytochrome oxidase activities by cationic peptides of some African plant seeds. 3rd Alexander von Humboldt Conference/Humboldt-Kolleg, Ladoke Akintola University of Technology Osogbo Campus, Osun State – Translating Research into Policy in Developing Countries. 24th –27th January, 2017.
18. Molehin O. R., **Ajayi E. I. O.**, Omotoyinbo O. E., Aladetuyi B. J. (2016). Regulation of liver catalase and cytochrome c oxidase activities by seed peptides of watermelon (*Citrullus lanatus*). 35th Annual Conference of the Nigerian Society of Biochemistry and Molecular Biology (NSBMB) – Covenant University, Sango-Otta, Ogun State. 1st – 4th November, 2016.

19. **Ajayi E. I. O.** and Adekale I. A. (2016). Modulation of mitochondrial apoptotic cell death in the brain of hyperglycemic rats by ethanol extract of *Bombacopsis glabra* leaves, *in vitro*. 35th Annual Conference of the Nigerian Society of Biochemistry and Molecular Biology (NSBMB) – Covenant University, Sango-Otta, Ogun State. 1st – 4th November, 2016.
20. **Ajayi E. I. O.** and Oroye R. A. (2016). Evaluation of the effects of *Carica papaya* seed peptides on murine liver mitochondrial cytochrome c oxidase, catalase and tissue regeneration. 35th Annual Conference of the Nigerian Society of Biochemistry and Molecular Biology (NSBMB) – Covenant University, Sango-Otta, Ogun State. 1st – 4th November, 2016.
21. **Ajayi E. I. O.**, Attah A. F., Faleke H. O., Alimi-Adeniran O., Sowale O. O. (2016). Effects of the crude peptides of *Thaumatococcus danielli* leaves and seeds on rat liver cytochrome c oxidase and catalase activities, hepatocyte regeneration, and bacteriocin-producing bacteria. “Towards Sustainable Clinical Chemistry Practice for The Nation”, 6th Biennial Conference of the Association of Clinical Chemists of Nigeria, Medical Research Centre, Lagos State University, College of Medicine, Ikeja, Lagos, Nigeria. 12th – 14th October, 2016.
22. **Ajayi E. I. O.**, Isamah D. O. and Ajayi S. O. (2016). Preliminary physico-chemical properties of *Bombacopsis buonopozense* seed oil and its effects on liver mitochondrial membrane permeability transition pore opening and liver function of female albino rats, *in vivo*. UNIBADAN Conference of Biomedical Research (UCBR-5), Conference Centre, University of Ibadan, Nigeria. 12th - 15th July, 2016.
23. **Ajayi E. I. O.**, Iyoha A. E., Abdulazeez F. O. (2015). Role of butanol extract of *Manihot esculenta* leaf against perturbation of mitochondrial membrane permeability transition pore opening by cigarette butt leachate, *in vitro*. 10th FASBMB Congress/34th NSBMB Conference, FUTMINNA Nigeria 2015: “Biochemistry and Molecular Biology: Challenges and Prospects for Africa’s Sustainable Development In The 21st Century.” 2 – 6 November, 2015.
24. **Ajayi, E.I.O.**, Adeleke Monsuru Adebayo, Adewumi Temidayo Yetunde, Adeyemi Abisola Ajoke (2015). Antiplasmodial activities of ethanol extracts of *Euphorbia hirta* whole plant and *Vernonia amygdalina* leaves in Plasmodium berghei- infected mice. 1st International Conference on Natural Product Utilization, 2-5 October, 2015, Plovdiv, Bulgaria.
25. Akinde S. B., Olaitan J. O., **Ajayi E. I. O.**, Ige O., Adeniyi M. (2015). Mycological quality, fungal molecular characterization and incidence of aflatoxin producing *Aspergillus* species in fresh vegetables, cultivation soil and irrigation water. 115th General Meeting of American Society for Microbiology May 30 – June 2, 2015. New Orleans Ernest N. Morial Convention Centre, Louisiana, USA.
26. **Ajayi E. I. O.**, Iyoha A. A. and Ajayi O. I. (2015). Current scene and scenario of visceral leishmaniasis in Nigeria. Vol. 1. International Conference on Advancement in Engineering, Research & Technology (ICETR) 06-07 JUNE, 2015. MV Research and Development Centre, Bhopal, Madhya Pradesh, India.

27. Bhagya Bhavana, **Ajayi Ebenezer Idowu**, Gopalkrishna P., Satish N., Prasad V. V. T. S., Thangaraj K. (2013). Role of mitochondria in aging-associated cancers. Vol. 3. 3rd Annual Conference of Society for Mitochondrial and Medicine: Mitochondria in Health and Diseases, December 19 and 20, 2013. National Institute of Mental Health and Neurosciences, Bangalore, Karnataka, India.
28. **Ajayi, E.I.O.**, Olufunso O. Olorunsogo, Uttam C. Banerjee (2011). Comparison of modulation of membrane permeability transition pore opening of heart mitochondria in normal and Type II diabetic rats using *Manihot esculenta* leaf extract. The EMBO Meeting 2011, 10-13 September 2011. Austria Vienna Centre, Vienna, Austria.
29. **Ajayi, E.I.O.**, Olorunsogo Olabode Olufunso and Banerjee Uttam Chand (2011). *In vitro* modulatory activities of ethanolic leaf extract of *Manihot esculenta*, Crantz on kidney mitochondrial membrane permeability transition pore of Type 2 diabetic Sprague-Dawley rats. World Congress on Biotechnology (21-23 March, 2011), Hyderabad, India.
30. **Ajayi, E.I.O.** (2011). Dung business is serious business: towards a cleaner environment. International Conference on Biotechnology for Better Tomorrow (BTBT 2011); February 6-9, 2011. Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.), India.
31. **Ajayi E. I.O.**, Banerjee U. C., Olorunsogo O. O. (2011). Screening of ethanolic extracts of *Manihot esculenta* Crantz leaves for lipase inhibitory activity. International Conference on Recent Trends in Therapeutic Advancement of Free Radical Science & 10th Annual Meeting of the Society for Free Radical Research, India (SFRR, 9-11 January, 2011). Chennai, India.
32. **Ajayi, E.I.O.**, Agarwal Amit, Olorunsogo Olabode Olufunso and Banerjee Uttam Chand (2010). Antioxidant and Xanthine Oxidase Inhibitory activities of *Manihot esculenta* leaf extract. 2nd Biennial Int'l Conference on New Developments in Drug discovery from Natural Products and Traditional Medicines, DDNPTM/NIPER 2010 (20-24 November, 2010) NIPER, SAS Nagar, India.
33. Anyasor, G.N., **Ajayi, E.I.O.**, Saliu, J.A., Ajagbonna, O. and O.O. Olorunsogo (2009). Effect of artesunate on liver function enzymes, plasma electrolytes and renal functions. 29th Annual Scientific Conference of the Nigerian Society of Biochemistry and Molecular Biology; 6-9 December, 2009 at the Federal University of Technology, Akure, Nigeria.
34. Atanu F. O., **Ajayi E. I. O.** and Bello I. J. (2009). Bio-engineering the mitochondria for more durable hyper-accumulators. 29th Annual Scientific Conference of the Nigerian Society of Biochemistry and Molecular Biology; 6-9 December, 2009 at the Federal University of Technology, Akure, Nigeria.
35. Adu, B.W., Bello, I. J., Olabode, O. O. and **Ajayi, E. I. O.** (2009). Mitochondrial status as an index of the ageing process. Book of Abstracts; 5th Biennial Scientific Conference of Association of Clinical Chemists of Nigeria and Inauguration of African Federation of Clinical Chemistry; 25-28 October, 2009 at the University of Ibadan, Nigeria.
36. **Ajayi, E.I.O.**, Oluwatomisin Adeola and O. B. Ajayi (2007). Preliminary phytochemical screening and antimicrobial activities of Bruce (*Nauclea latifolia*) plant. Book of Abstracts;

- 2nd Natural Product Research Colloquium & Guest Lecture, October 20-21, 2007; Department of Pharmacognosy, Faculty of Pharmacy, University of Ibadan, Nigeria.
37. Anyasor, G. N., **Ajayi, E. I. O.**, Saliu, J. A., Ajagbonna, O. and Olorunsogo, O. O. (2008). Artesunate opens mitochondrial membrane permeability transition pore. Vol. 1: 57-59. Book of Proceedings, 1st International Malaria Symposium on Clinical Pharmacology of Antimalarial Agents, Accra, Ghana; August 12 and 13, 2008; sponsored by Africa Health Research Organisation (AHRO), Ghana.
26. Information on Fellowship, Master's project and Ph.D. Thesis Supervised (starting with the latest)
- M.Sc. Biochemistry**
1. **YUSUF Nafisat Abdulmalik (2023/52556):** Preventive and mitigative effects of aqueous *Moringa oleifera* seed extract on acute ethanol-induced nephrotoxicity in gastric ulcer model in male Wistar rats (Co-Supervisor; Commenced 2024; Completed 2025).
 2. **ADEWOLE Adenike Taofikat (BCH/2018/0009):** Hormone regulation by lime-infused *Newbouldia laevis* leaf extract in high-fat diet-manipulated, letrozole-induced polycystic ovarian syndrome Wistar rats (Main Supervisor; Commenced 2024; Completed 2025).
 3. **OLADIMEJI Damilola (BCH/2018/0045):** Reversal of rotenone-induced Parkinsonism by zinc nanoparticles of *Newbouldia laevis* leaves in wild-type "Kep-Os" *Drosophila melanogaster* from Oke Baale, Osogbo, Osun State, Nigeria (SolecSupervisor; Commenced 2024; Completed 2025).
 4. **AYODELE Paul Ayotunde (BCH/2017/0026):** Green-synthesized zinc nanoparticles of *Newbouldia laevis* leaves modulate high-sucrose diet-induced diabetes in wildtype "Kep-Os" *Drosophila melanogaster* from Oke Baale, Osogbo, Osun State, Nigeria (Main Supervisor; Commenced 2024; Completed 2025).
 5. **OYINLOYE Oluwatimilehin Isaac (2021/37376):** Eugenol ameliorative potential on Sodium Fluoride induced hepatotoxicity in male Wistar rat (Co-Supervisor; Commenced 2022; Completed 2023).
 6. **JIMOH Abdulsamad Taiwo (2021/37288):** Ameliorative effects of chlorogenic acid on high sucrose diet-induced diabetes in *Drosophila melanogaster* (Main Supervisor; Commenced 2022; Completed 2023). **Seminar:** Signaling and cell cycle dysregulation in diabetic wasting.
 7. **OSUNDINA Oluwaseun (2021/37175):** Antidiabetic potentials of Nigeria bitter honey using *Drosophila melanogaster* and network pharmacology models (Main Supervisor; Commenced 2022; Completed 2023). **Seminar:** DNA fingerprinting in epigenetic modulation of diabetes mellitus.
 8. **ADENRELE Simeon Olutoye (BASP/16/17/H/0001):** Effects of ethanol and aqueous extract of *Clerodendrum volubile* leaves on *in vitro* mitochondrial membrane permeabilization and wound healing in diabetic rats (Main Supervisor; Commenced 2017; Completed 2018).

9. **OLADELE Oluwaseun Titilope (BASP/16/17/H/0006):** Wound healing and cytoprotective potentials of ethanolic and hot water leaf extracts of *Crotalaria retusa* in low dose streptozotocin-induced diabetic rats (Main Supervisor; Commenced 2017; Completed 2018).
10. **OLANIYAN Oluwaseyi Paul (BASP/16/17/H/0009):** Effects of ethanol and hot water extracts of cassava biogas slurry on transdermal wound healing in diabetic rats and liver mitochondrial membrane permeabilization of normal rats (Main Supervisor; Commenced 2017; Completed 2018).
11. **FADIYA Oluwadamilola Victoria (BASP/15/16/R/0017):** Sero-epidemiological surveillance of visceral leishmaniasis in Osogbo Metropolis, Osun State, Nigeria (Main Supervisor; Commenced 2016; Completed 2017).
12. **ATANDA Joy Adeyemi (BASP/15/16/R/0018):** Association between vitamin D binding protein (DBP) gene variants and diabetic foot ulcer (DFU) in patients presenting at General Hospital, Asubiaro, Osogbo, Osun State, and University Teaching Hospital, Ibadan, Oyo State, Nigeria (Main Supervisor; Commenced 2016; Completed 2017).

M.Phil./Ph.D. Biochemistry

13. **OYEDEJI OLUWAKEMI:** Co-Supervisor; Commenced 2016; New Intake
14. **OYELAMI Oyeyinka Kafayat (2023/52531):** Functional genomics of *Plasmodium*: a formidable tool for malaria control (Main Supervisor; Commenced 2023; Completed 2024).

Ph.D. Biochemistry

15. **OWOFADE Damilola Olasubomi:** Mitochondria-targeting nanotherapeutic potential of *Bryophyllum pinnatum* against aluminum chloride-induced Alzheimer's disease in *Drosophila melanogaster* (Main Supervisor; Commenced 2025; Ongoing).
16. **BABATUNDE Isaac Olawale (BCH/2011/0019) (Co-Supervised):** Evaluation of the neuroprotective efficacy of silver nanoparticles of epigallocatechin-3-gallate on rotenone-induced Parkinson's disease in male Wistar rats (Co-Supervisor; Commenced 2024; Ongoing). **Seminar:** The clinical aspects of neurodegeneration.
17. **OYELAMI Oyeyinka Kafayat (2023/52531):** Antiplasmodial efficacy, protozoan apicoplast and host liver mitochondrial permeability of a herbal cocktail from five promising medicinal vegetal parts in *Plasmodium berghei*-infected mice (Main Supervisor; Commenced 2024; Ongoing)
18. **OLAREWAJU IBIWUMI OLAIDE (2023/52618):** Sustainable prophylactic activities of lime juice-infused *Newbouldia laevis* leaves against rheumatoid arthritis in Wistar rats (Main Supervisor; Commenced 2023; Ongoing).
19. **UZAMAT Opeyemi Fatima (BCH/2012/0034):** Deciphering anti-diabetic properties of fenugreek seed-mediated zinc nanoparticles in high-sucrose diet-manipulated diabetic wild type "Kep-Os" *Drosophila melanogaster* (Sole Supervisor; Commenced 2022; Ongoing).

20. **OYEWALE Medinat (PG21294107):** Antiparasitic activity of silver nanoparticles of *Spondias mombin* leaves against *Trypanosoma cruzi*-infected mice, *in vivo* and *in silico* (Main Supervisor; Commenced 2021; Discontinued in 2023 due to family relocation abroad).
21. **OLAWUNMI Samuel Akinwale (2020/33087):** Effects of silver nanoparticle formulations of *Zingiber officinalis* alkaloid extract on *in vivo* and *in vitro* regulation of wound healing in diabetic rat (Main Supervisor; Commenced 2020; Completing in 2026).
22. **FAFIOYE Rasaq Olugbenga (2020/33143):** Evaluation of association between diabetes and cardiovascular diseases among diabetic patients in Osogbo and Olorunda Local Government Areas of Osun State (Main Supervisor; Commenced 2020; Completing in 2026).

27. Details of Administrative Experience

Administrative Experience

- i. University

Associate Editor, UNIOSUN Journal of Basic and Applied Sciences (UJBAS)	January 2026–Till Date
Representative of Congregation in Senate	Aug. 2024–Till Date
Acting Head of Biochemistry (Including Science Laboratory Technology, Aug. 2022 to July 2023)	Aug.2022–July 2024
Member, Departmental Curriculum Review Committee	Aug. 2009–Till Date
Examination Officer, Biochemistry	Sept. 2009–Mar. 2018
Member, College Lecture & Examination Time-Table Committee	Sept 2009 – Dec. 2016
Member, Departmental Board of Examiners	Aug. 2009 – Till Date
Member, Faculty Sports Committee	Oct 2014 – Dec. 2016
Contact Administrator, Instrumental Access Seeding Labs, USA (An International Equipment Donor Agency)	July 2015 –Till Date
Desk Editor, <i>UNIOSUN J. Science</i>	January 2015–Till Date
Sub-Dean Students Affairs, College of SET	Nov. 2015 - Mar. 2018
Member, Departmental Postgraduate Committee	Aug. 2016 – Till Date
Associate Desk Editor, <i>Res. J. Health Sc.</i>	Aug. 2016 – July 2021
Contact Scientist, TReND in Africa (An International Life Scientist Volunteer Organisation)	Aug. 2016 – Till Date
Head of Unit, Biochemistry	Oct. 2016–Mar. 2018
Department of Chemical Sciences	
Member, Teaching & Research Sub-Committee	Oct. 2016 –Dec 2016
Rebuilding UNIOSUN for Strategic Growth, Development, Systemic Sustainability in Teaching	

		and Research Portfolio: Implementing the Vision & Mission of the Vice-Chancellor	
		Member Local Organising Committee	Dec. 2016
		UNIOSUN Journal of Sciences Editorial Workshop (Presentation of Maiden Editions of TETFund-Sponsored Journals)	
		Member Local Organising Committee	June 2017
		UNIOSUN Guest Lecture/ Postgraduate Workshop	
		PG Coordinator, Biochemistry Unit	Mar. 23, 2018
		Member College Annual Lecture	July 2022
		Member and Chairman Sub-Committee on Budget and Logistics, College Annual Lecture	July 2024
		Member and College Representative	May – August 2024
ii.	National	ASUU Election Committee	
		Pioneer Set Alumni Financial Secretary	2009 – 2016
		1993/1999 Set, Christ's School Alumni	
		Invigilator, Osun State Civil Service Promotion Examination	2013/2014
		Invigilator, Post-UTME Examination	2014/2015
		Set Alumni General Secretary	2016 –Till Date
		1993/1999 Renaissance Set	
		Christ's School Alumni	
iv.	International	Invited Reviewer for Drugs for Today	2015
		Invited Reviewer for Phytotherapy Research	2016
		Invited Reviewer for Research Journal of Health Sciences, UNIOSUN	2016
		Reviewer for African Journal of Infectious Diseases	2016-2017
		Member and Reviewer, International Organization Committee, International Conference of Interdisciplinary Sciences (ICIS-2017) by Phenome Research Foundation, Varanasi, India	2017
		Invited Reviewer for Comparative Clinical Pathology	2017
		Invited Reviewer for Trends in Phytochemical Research	2018
		Member, International Organization Committee International Conference & Integrated Meeting (Medicine, Food, Pharma and Agro Technology: INCON-MFPA-2018)	2018

by DDU Kaushal Kendra (Banaras Hindu University, Varanasi), RGSC, Barkachha, Mirzapur, India	
Invited Reviewer for Fountain Journal of Natural and Applied Sciences	2018
Invited Reviewer for Journal of Medicinal Plants Research	2019
Invited Reviewer for Clinical Phytoscience	2019
Invited Reviewer for International Journal of Oceanography & Aquaculture	2019
Invited Reviewer for Journal of Food Science and Technology	2019
Associate	2020 – 2022
LifeSi (3D Bioprinting & Microfluidics), Argentina	
Chief Operations Officer – Associate	2020 – 2022
Sanicle (Padbanque), Harrisburg, PA, USA	
Invited Reviewer for Medicas UIS	2021
Industrial University of Santander Medical Students' Journal, Bucaramanga, Colombia	
Invited Reviewer for Clinical Phytoscience	2021
Research Consultant and Collaborator	2021 – 2023
Innoscience Research Sdn. Bhd., Skypark, One City, Jalan 47650 Subang Jaya, Selangor, Malaysia	
Member, Local Organizing Committee	2021–Till Date
Circularity Africa Conference, Interconnections for Making Africa Great, Empowered and Sustainable (IMAGES) Initiative, Nigeria	
STEM Educator & Member, Chia Funkuin Foundation (UN-ECOSOC-Accredited NGO), Bamenda, Cameroon	2022 – 2023
Invited Reviewer for Biological Trace Element Research	2023
Start Up Incubator/Accelerator Judge (Social Impact Accelerator Programme), UK-Nigeria Tech Hub – UK government's Department for Digital, Culture, Media, and Sports (DCMS)/ Network of Incubators and Innovators in Nigeria	2023

Co-Curricular Professional Experience

- i. 27th August 2025: Examiner from Other Faculty for M.Sc. final examination in the Department of Animal and Environmental Biology, Faculty of Basic and Applied Sciences, College of Sciences, Engineering and Technology, Osun State University, Osogbo, Nigeria – (1) Molecular epidemiology and gene expression-informed vector control strategies for malaria mosquitoes: A comparative study across two Local Government Areas in Osun State, Nigeria (2) Molecular and entomological surveillance of *Wuchereria bancrofti* in two selected peri-urban areas of Osun Central Senatorial District (3) Insecticide susceptibility and molecular characterization of *Aedes aegypti* in Osogbo metropolis, Southwestern Nigeria.
- ii. 25th August 2025: Examiner from Other Faculty for Ph.D. final examination in the Department of Animal and Environmental Biology, Faculty of Basic and Applied Sciences, College of Sciences, Engineering and Technology, Osun State University, Osogbo, Nigeria – Antiplasmodial and larvicidal potential of three green-synthesized nanoparticles against *Plasmodium berghei* and mosquito vectors.
- iii. 25th July 2025: Invited Speaker to the webinar series of the Nigerian Society of Biochemistry Students, Southwest zone (Office of the Staff Adviser on Academic and Affairs): Beyond Books, Beyond Labs Into Life Itself, titled: “How To Navigate Your Career As A Biochemist”.
- iv. 17th July 2025: Examiner from Other Faculty for M.Sc. oral thesis examination in the Department of Physiology, Faculty of Basic Medical Sciences, College of Health Sciences, Osun State University, Osogbo, Nigeria – (1) Effects of *Nigella sativa* oil on reproductive dysfunctions in Type 2 diabetic male Wistar rats; (2) Motor functions and cognition parameters post-withdrawal of 3,4-methylendioxyamphetamine (MDMA) treatment in male Sprague-Dawley rats.
- v. 11th July 2025: Examiner from Other Faculty for Ph.D. qualifying examination in the Department of Physiology, Faculty of Basic Medical Sciences, College of Health Sciences, Osun State University, Osogbo, Nigeria – (1) Effects of *Cyperus esculentus* and Vitamin C nanoformulations on sexual and reproductive health of corticosterone-stressed Wistar rats; (2) Cardiovascular homeostasis potential of chromium and zinc on high-fat diet-induced metabolic syndromes in male Wistar rats; (3) Isolation, characterization, identification and mechanisms of action of bioactive compounds of *Buchholzia coriacea* seed – A potential male contraceptive agent.
- vi. 13th June 2025: Judge of College of Science, Engineering and Technology Students Association (CSETSA) Inter-Faculty Debate – The Pursuit of Technological Advancement in Nigeria: A Catalyst for National Development or A Threat to Sustainable Living?
- vi. 4th June 2025: Evaluator of two (2) research proposals for Undergraduate Students Research Award, Osun State University, Osogbo, Nigeria – (1) Health risk assessment of organochlorine pesticides (OCPs) in Otin River water and fish with economic value, (2) Anxiolytic and antidepressant effects of ethanolic extract of *Bidens pilosa*.
- vii. 15th May 2025: Examiner from Other Faculty for Ph.D. qualifying examination in the Department of Animal and Environmental Biology, Faculty of Basic and Applied Sciences,

- College of Sciences, Engineering and Technology, Osun State University, Osogbo, Nigeria – (1) Microbial surveillance of slaughterhouse effluents and meat products in relation to foodborne disease outbreaks in Osun State, Nigeria; (2) Spatial distribution and biting patterns of *Simulium* spp. in selected riverine communities in Osun and Oyo States of Nigeria; (3) Simulation modeling of *Onchocerca volvulus* transmission dynamics under variable ivermectin coverage in Osun State, Southwest Nigeria and molecular docking of plant-derived compounds against its thioredoxin reductase enzyme; (4) Serological and molecular diagnostics for detecting Loiasis in residents of forested and urban-fringe communities misdiagnosed with other filarial infections in Osun State, Nigeria; (5) Molecular characterization and gene expression profiling of knockdown resistance (kdr) mutations in pyrethroid-resistant *Anopheles gambiae* populations in Osun State, Nigeria.
- viii. 16th April 2025: Examiner from Within Faculty for M.Sc. oral thesis examination in the Department of Pure and Applied Chemistry, Faculty of Basic and Applied Sciences, College of Sciences, Engineering and Technology, Osun State University, Osogbo, Nigeria – Assessment of hydrocarbon and heavy metals in the soil and groundwater nearby petrol service stations in some selected areas in Osogbo, Osun State.
- ix. 16th August 2024: Examiner from Within Faculty for M.Sc. oral thesis examination in the Department of Pure and Applied Chemistry, Faculty of Basic and Applied Sciences, College of Sciences, Engineering and Technology, Osun State University, Osogbo, Nigeria – (1) The efficacy of flavonoids for the inhibition of measles: A computational study (2) Medicinal qualities of essential oil of *Syzygium aromaticum* grown in Nigeria with respect to the length of storage.
- x. 13th August 2024: Examiner from Other Faculty for M.Sc. oral thesis examination in the Department of Physiology, Faculty of Basic Medical Sciences, College of Health Sciences, Osun State University, Osogbo, Nigeria – (1) Effects of acyclovir on neurobehavioural and biochemical markers of male Wistar rats (2) Assessment of the potential ameliorative effects of ethanol leaf extract of *Justicia secunda* and 5-fluorouracil on trichloroacetic acid-induced hepatocellular carcinoma in male Wistar rats (3) Reproductive hormonal alteration is associated with oxidative stress in male F₁ generation offsprings of caffeine-treated sows (4) Assessment of growth rate, genotoxicity, and testicular toxicity in prepubertal male Wistar rats exposed to aluminium sulphate in drinking water: Possible role of selenium.
- xi. 25th July 2024: Examiner from Other Faculty for Ph.D. qualifying examination in the Department of Mechanical Engineering, Faculty of Engineering, College of Science, Engineering and Technology, Osun State University, Osogbo, Nigeria – Modelling of biogas production from some selected fruit and vegetable wastes mixed with cow dung using artificial neural network.
- xii. 10th June 2024: Evaluator of six (6) research proposals for Undergraduate Students Research Award, Osun State University, Osogbo, Nigeria.
- xiii. 11th April 2024: Chief Examiner or Supervisor for 2 Ph.D. qualifying examination in the Department of Biochemistry, Faculty of Basic and Applied Sciences, Osun State University,

- Osogbo, Nigeria – (1) Protective and ameliorative potentials of cotton leaf against indomethacin-induced gastric ulcer in Wistar rats (2) Green synthesis, characterization and antidiabetic evaluation of silver nanoparticles of fenugreek (*Trigonella foenum-graecum*) seed extract in male Wistar rats
- xiv. 5th April 2024: Examiner from Faculty for Ph.D. qualifying examination in the Department of Zoology, Faculty of Basic and Applied Sciences, Osun State University, Osogbo, Nigeria – Antiplasmodial and larvicidal potential of three green-synthesized nanoparticles against *Plasmodium berghei* and two mosquito vectors
 - xv. 2nd April 2024: Internal Examiner for M.Sc. dissertation oral defense in the Department of Microbiology, Faculty of Basic and Applied Sciences, Osun State University, Osogbo, Nigeria – Genetic characterization and antimicrobial screening of halogenase-producing *Pseudomonas aeruginosa* from soil sediments from the Gulf of Guinea against drug-resistant *Klebsiella pneumonia* and *Candida parapsilosis*
 - xvi. 26th February 2024: Internal Examiner for Ph.D. thesis defense in the Department of Microbiology, Faculty of Basic and Applied Sciences, Osun State University, Osogbo, Nigeria – Green synthesis and antimicrobial potential of silver nanoparticles from African snot apple as possible alternative agent against vancomycin-resistant *Enterococci*.
 - xvii. 21st February 2024: Internal Examiner for 4 M.Sc. dissertation oral defense in the Department of Zoology, Faculty of Basic and Applied Sciences, Osun State University, Osogbo, Nigeria – (1) Comparative toxicity impacts of microplastics on nematode fauna in selected dumpsite soil and abandoned farmland in Egbedore Local Government Area of Osun State (2) Abundance and diversity of nematodes in selected Local Government Area, Osun State (3) Nematodes and protists communities in vermicast, and earthworm implication on the transmission of soil-transmitted parasites in selected communities of Osun State (4) Prevalence and associated risk factors of congenital malaria in Osogbo, Nigeria
 - xviii. 13th February 2024: Examiner from Faculty for Ph.D. qualifying examination in the Department of Pure and Applied Chemistry, Faculty of Basic and Applied Sciences, Osun State University, Osogbo, Nigeria – Identification of a novel *Plasmodium falciparum* protease inhibitor from naturally occurring organic compounds: A computational study.
 - xix. 6th February 2024: Internal Examiner for Ph.D. qualifying examination in the Department of Zoology, Faculty of Basic and Applied Sciences, Osun State University, Osogbo, Nigeria – Spatial distribution and insecticide susceptibility status of *Anopheles gambiae* s. l. (*Diptera*: *Cuculidae*) in Osun State, Southwest, Nigeria
 - xx. 12th December 2023: Internal Examiner for Ph.D. qualifying examination in the Department of Zoology, Faculty of Basic and Applied Sciences, Osun State University, Osogbo, Nigeria – Distribution and genetic variability of *Tunga penetrans* in reservoir hosts in Badagry Local Government Area of Lagos State, Nigeria
 - xxi. 30th January 2023: Internal Examiner for 4 M.Sc. dissertation oral defense in the Department of Zoology, Faculty of Basic and Applied Sciences, Osun State University, Osogbo, Nigeria – (1) Heavy metals in water, sediment and common fish *species* of Osun River, Osogbo and

- their health implications (2) Effects of heavy metals on the quality of abandoned soil, water and vegetables of Onibuaje village, Osun State (3) Association of *Nosema* spores and *Varroa* mites in honey bee colonies in Southwest Nigeria (4) Bio-efficacy of locally made insecticides against mosquitoes and their toxicology effects on Wistar rats
- xxii. 24th November 2022: Internal Examiner for 7 Ph.D. qualifying examination in the Department of Biochemistry, Faculty of Basic and Applied Sciences, Osun State University, Osogbo, Nigeria – (1) Evaluation of association between diabetes and cardiovascular diseases among diabetic patients in Osogbo and Olorunda Local Government Areas of Osun State, Nigeria (2) Effects of silver nanoparticles and liposomal formulations of *Zingiber officinalis* alkaloid extract on *in vivo* and *in vitro* regulation of wound healing in diabetic rat (3) Profiling and therapeutic potential of metabolites from anaerobic digestion slurry on colorectal cancer and pneumonia comorbidity (4) Synergistic ameliorative potentials of *Allium sativum* and *Zingiber officinale* nanoparticles on reproductive toxicity in streptozotocin-induced male Wistar rats (5) The effect of *Mezoneuron benthamianum* fraction on cadmium-induced toxicity in male Wistar rat (6) Evaluation of antidepressant properties of composite tea of *Mondia whitei* and *Curcuma longa* and their effects on sexual performance in rats (7) Synergistic ameliorative potentials of quercetin and ascorbic acid on some biochemical markers of arsenic-intoxicated obese Wistar rats
- xxiii. 1st December 2021: Internal Examiner for 2 M.Sc. dissertation oral defense in the Department of Pure and Applied Chemistry, Faculty of Basic and Applied Sciences, Osun State University, Osogbo, Nigeria – (1) Comparative studies on the synergistic and antagonistic activities of fractions and crude essential oil of *Syzygium aromaticum* (2) *In silico* investigation on chloroquine derivatives: A potent anti-CoVID-19 main protease
- xxiv. Start Up Incubator/Accelerator Judge (A 3-Day Masterclass on Social Impact Accelerator Programme/ Social Innovation-Driven Entrepreneurship), UK-Nigeria Tech Hub – UK government's Department for Digital, Culture, Media, and Sports (DCMS)/ Network of Incubators and Innovators in Nigeria, 29th – 31st January 2024
- xxv. Internal assessor and expert evaluator in recruitment/ evaluation of applications and for positions of Assistant Lecturers (4) and Lecturer II (1) into the Departments of Biochemistry and Medical Biochemistry, Osun State University, Osogbo, Nigeria
- xxvi. 5-week Summer programme on Building a high-performance digital entrepreneurship workforce for learners based in Africa, UK and EU (Free Courses) of the Child, Youth and Women (ChiYoWo) Sustainability Mentoring Hub, 31st July – 8th September 2023
- xxvii. World Creative and Innovation Quest 2023: Step Out, Innovate and Solve a Problem of the Child, Youth and Women (ChiYoWo) Initiative, 17th June 2023
- xxviii. Africa Young Scientists (AYS) Mentees competition for Graduate Record Examinations (GRE) Support, 20th – 23rd October 2020
- xxix. Rapporteur, Technical Session 5 of the International Conference on CoVID-19, air quality and environment, Centre for Atmospheric Research, organized by the Centre for Atmospheric Research, Osun State University, Osogbo, Osun State; National Space Research &

Development Agency, Federal Ministry of Science, Technology and Innovation, Anyigba, Kogi State, and the Alliance for Education, Science, Engineering and Design in Africa (AESEDA), Penn State University, USA at the Olagunsoye Oyinlola Main Auditorium, Osun State University, Osogbo, Nigeria, 8 – 12 August 2022.

- xxx. Evaluator of abstracts for the International Conference on Interdisciplinary Sciences (ICIS) 2017, organized by Phenome Research Foundation, Varanasi, India, 16th – 17th July 2017 at SciUn Journal/conference
- xxxi. March 2011: Instructor on mitochondria isolation and *in vitro* modulation of mitochondrial membrane at the semester permeability transition practical session (PTBT M.Sc. Practical Modules 1 & 2), Department of Pharmaceutical Biotechnology/Biotechnology (PTBT), National Institute of Pharmaceutical Education and Research (NIPER), S. A. S. Nagar, Mohali, Punjab-160062, India.

28. Teaching Experience (Recent)

B.Sc.

Harmattan Semester 2023/2024 and 2024/2025

BCH309	Membrane Biochemistry	(2)
BCH401	Advanced Enzymology	(3)
BCH407	Plant Biochemistry	(2)
BCH409	Seminar in Biochemistry	(2) – 10 students
BCH413	Bioenergetics	(1)
BCH 423	Hormonal Biochemistry	(2)

Rain Semester 2023/2024

BCH412	Industrial Biochemistry	(2)
BCH416	Inorganic Biochemistry	(2)
BCH499	Research Project	(6) – 10 students

M.Sc.

Harmattan Semester 2023/2024 and 2024/2025

BCH703/803	Analytical Biochemistry	(2)
BCH713/813	Immunology	(2)

Rain Semester 2023/2024

BCH702/802	Molecular Biology	(2)
BCH710/810	Biological Membranes	(2)
BCH799/899	Research Project	– 2 M.Sc./1 M.Phil./Ph.D. students

Ph.D.

Harmattan Semester 2023/2024 and 2024/2025

BCH 901	Research Techniques in Biochemistry	(3)
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Rain Semester 2023/2024

BCH910 Membrane Phenomena (2)
BCH999 Research Project – 1 student

29. Service to the Community (with status and dates)

- | | | |
|------|--|---|
| i. | Vaccinator, World Health Organisation (WHO)
Immunization Scheme, Ado-Ekiti, Ekiti State | June 2005 |
| ii. | Member, Osun State Taekwondo Association | August 2012 – Till Date |
| iii. | Assistant Pastor, RCCG Pathfinder Parish
(Youth Assembly) Oke-Baale, Osogbo | May 2014–Aug. 2017 |
| iv. | Altar Minister, RCCG Miracle Parish, Kajola | Sept. 2017– Mar. 2018/
Feb. 2021 – Till Date |
| v. | Board Member, Osun State Taekwondo
Association/LOC Member, 1 st South-West (4 th Leg, 2-day)
Basic Coaching Workshop, Osogbo | Feb.2018–Mar.2018 |

30. Extra-Curricular Activities

Studying, Swimming, Gardening, Travelling, Acting, Taekwondo/Tai Chi

AJAYI, Ebenezer Idowu Olatunbosun

7th September, 2026