

CURRICULUM VITAE

Name: AKINNOLA, Olayemi Oluseun
Nationality: Nigerian
State: Osun
Religion: Christianity
Contact Address (Office): Department of Biological Sciences, College of Science and Technology, Covenant University, Ota.
E-mail Address: ola.akinola@covenantuniversity.edu.ng
Present Position: Senior Lecturer

Institutions attended with dates

S/N	Degree Level	Academic Qualification	Year	Institution
A	1 st Degree	B.Sc. Microbiology	2000	Obafemi Awolowo University
B	2 nd Degree	M.Sc Pharmaceutical Microbiology.	2003	University of Ibadan
C	3 rd Degree	Ph.D Microbiology	2012	Covenant University

Courses Taught

MCB 222: Techniques in Virology
MCB 313: Clinical Microbiology
MCB 316: Immunology
MCB 414: Virology
MCB 415: Pharmaceutical Microbiology
MCB 421: Industrial Microbiology
MCB 422: Fermentation and Substrate Enzyme Technology
MCB 811: Advanced Bacteriology
MCB 815: Advanced Immunology and Virology
MCB 827: Advanced Pharmaceutical Microbiology

MCB 828: Medical Bacteriology

MCB 921: Methods of Pharmaceutical Analysis

MCB 925: Advanced Virology II

MCB 926: Advanced Immunology II

Scholarships, Fellowships and Prizes

1. Federal Government of Nigeria Scholarship for Postgraduate Studies, 2003.
2. European Molecular Biology Organization Pre-doctoral Fellowship Grant, 2011 at the Institute for Medical Microbiology, University Hospital Münster Germany.
3. Wellcome Trust Travel Grant for the Wellcome Trust Advanced Course on Molecular Approaches to Clinical Microbiology in Africa. 25th - 30th May, 2013, Blantyre Malawi Blantyre Malawi.
4. International Society for Computational Biology Travel Fellowship Award, for African Society for Bioinformatics and Computational Biology Conference, Dar es Salaam, Tanzania, 2015.
5. The African Organization for Research and Training in Cancer (AORTIC) Travel Award for the AORTIC Conference, Kigali, Rwanda, 2017.
6. Certificate of Achievement for Bacterial Genomes: Disease Outbreaks and Antimicrobial Resistance. Wellcome Genome Campus Advanced Courses and Scientific Conferences. <https://www.futurelearn.com/certificates/kbd1z5e>. 2018.
7. Bill and Melinda Gates Global Health Travel Award for the Keystone Symposium, Role of the Genital Tract Microbiome in Sexual and Reproductive Health conference, Cape Town, South Africa, 2018.

Research Grants

1. CUCRID RG 023.01.15/FS

“Hand Washing and Disinfection Guidelines in Control of Spread of Infections in Hospital and Community: A Cohort Study”. The goal of this study is to investigate the effect of hand-washing and disinfection policies on the reduction of disease burden in the hospital environment and the community.

Role: (Principal Investigator)

2. Pilot Grant from prostate cancer transatlantic consortium (CapTC)

“Characterization of Bacterial Flora Present in Prostate Specimen from Prostate Cancer Patients in Nigeria”. The goal of the study is to identify bacterial flora in the prostate of prostate cancer patients in Nigeria.

Total Award Amount; N 8,361,005

Role: (Principal investigator)

3. CUCRID RG 009.11.14/FS

“Development of Saliva Based Point of Care Diagnosis of Malaria and /detection of Resistance to Arthemeter and Lumefantrine in *Plasmodium falciparum* from Nigeria.

Total Award Amount; N 3,313,000

Role: (Research team member)

Journal Publications

1. Adeniyi B.A and **O.O. Ayepola**, 2008. The Phytochemical Screening and Antimicrobial Activity of Leaf Extracts of *Eucalyptus camaldulensis* and *Eucalyptus torelliana* (Myrtaceae). *Res. J. Med. Plants* 2(1): 34-38.
2. **Ayepola O.O** and B.A. Adeniyi, 2008. The Antibacterial Activity of Leaf Extracts of *Eucalyptus camaldulensis* (Myrtaceae). *J. Appl. Sc. Res.* 4(11): 1410-1413.
3. **Ayepola O.O.**, 2009. Evaluation of the Antimicrobial Activity of Root and Leaf Extracts of *Terminalia glaucescens*. *Adv. Nat. Appl. Sc.* 3(2):188-91.
4. **Ayepola O.O.** and R.O. Ishola, 2009. Evaluation of Antimicrobial Activity of *Anacardium occidentale* (Linn.) *Advances in Dental and Medical Sciences.* 3(1): 1-3.
5. Ajayi, A.A., Yah, S.C., Olasehinde, G.I. and **Ayepola, O.O.** (2010). Studies on microorganisms associated with pre-harvest deterioration of guava (*psidium guajava* linn) fruits. *Scientific Research and Essays.* 5(17): 2400-2403.
6. Amy R Sapkota, Morenike E Coker, Rachel E Rosenberg Goldstein, Nancy L Atkinson, Shauna J Sweet, Priscilla O Sopeju, Modupe T Ojo, Elizabeth Otivhia, **Olayemi O Ayepola**, Olufunmiso O Olajuyigbe, Laura Shireman, Paul S Pottinger and Kayode K Ojo (2010). Self-medication with antibiotics for the treatment of menstrual symptoms in southwest Nigeria: a cross-sectional study. *BMC Public Health* 2010, 10:610.
7. Abiodun Humphrey Adebayo, Amos Olalekan Abolaji, Roseline Kela, **Olayemi Oluseun Ayepola**, Titilayo Banwo Olorunfemi and Olugbenga Samson Taiwo. Antioxidant activities of the leaves of *Chrysophyllum albidum* G. *Pak. J. Pharm. Sci.*, Vol.24, No.4, October 2011, pp.545-551.

8. Odesanmi OS, **Ayepola Olayemi**, Omotosho OE, Ogunlana OO, Frank Onwuka, Nwankpa Promise (2013). Effects of combinations of ethanolic extracts of *Blighia sapida* and *Xylopiya aethiopica* on progesterone, estradiol and lipid profile levels in pregnant rabbits. *Scientific Research and Essays* 8(22):969-972.
9. **Olayemi O. Ayepola**, Nurudeen A. Olasupo, Louis O. Egwari, Frieder Schaumburg (2014). Antibiotic susceptibility pattern and biofilm formation in coagulase negative staphylococci. *J Infect Dev Ctries.* 8(12):1643-1645.
10. Bolanle Alake Adeniyi, **Olayemi Oluseun Ayepola** and Festus Doyin Adu (2015). The Antiviral Activity of Leaves of *Eucalyptus camaldulensis* (Dehn) and *Eucalyptus torelliana* (R.Muell). *Pak. J. Pharm. Sci.* 28 (5) 1773-1776.
11. **Olayemi O. Ayepola**, Nurudeen A. Olasupo, Louis O. Egwari, Karsten Becker, Frieder Schaumburg (2015). Molecular Characterization and Antimicrobial Susceptibility of *Staphylococcus aureus* Isolates from Clinical Infection and Asymptomatic Carriers in Southwest Nigeria. *PLoS ONE* 10(9): e0137531. doi:10.1371/journal.pone.0137531.
12. J. O. Popoola, A. H. Adebayo, O. S. Taiwo, **O.O. Ayepola**, E. F. Okosodo (2016). Studies on Local Knowledge and In Vitro Cytotoxicity of *Moringa oleifera* L., *Andrographis paniculata* N., and *Asystasia vogeliana* B. Extracts. *Research Journal of Applied Sciences* 12(2): 180-190, 2017.
13. **Ayepola O.O.** Ugboko U.H. Abu B.O. Olorunshola S.J. (2017). Microbial Assessment of Herbal Cleansers (Bitters) Sold in Ota, Ogun State, Nigeria. *Covenant Journal of Physical and Life Sciences.* Vol 5, No 2 (2017).
14. **Olayemi Oluseun Ayepola.**, Samson Olugbenga Taiwo, Adedayo Anifowose and Olabode Onile-ere. "Nasal Carriage of *Staphylococcus aureus* and Associated Risk Factors among Students in a Nigerian University". *Acta Scientific Microbiology* 1.2 (2018): 06-08.
15. **OO Ayepola**, GI Olasehinde, OA Adedeji, OO Adeyemi, OA Onile-Ere (2018). In-vitro antimicrobial activity of crude extracts of *Diospyros monbuttensis*. *African Journal of Clinical and Experimental Microbiology* 19(2):84-87.
16. **O.O Ayepola**, O Onile-Ere, T Odeleye, N Adibe (2018). Evaluation of Antibacterial Activity of *Ocimum gratissimum* and *Zingiber officianale* on Bacteria Isolated from the Environment. *Journal of Advances in Microbiology.* 8(4):1-9.
17. **OO Ayepola**, AF Samson, O Onile-Ere (2018). In vitro Antioxidant and Anti-staphylococcal Activity of *Bixa orellana* Linn. and *Milicia excelsa* Welw. *Journal of Complementary and Alternative Medical Research* 5(4):1-6.

18. GI Olasehinde, KJ Sholotan, JO Openibo, OS Taiwo, Oluwakemi A Bello, JB Ajayi, **OO Ayepola**, AA Ajayi (2018). Phytochemical and Antimicrobial Properties of *Mangifera indica* Leaf Extracts. *Covenant Journal of Physical and Life Sciences Vol.6 No.1, June, 2018*.
19. **Olayemi O Ayepola**, Olabode A Onile-Ere, Oluwatobi E Shodeko, Fiyinfolouwa A Akinsiku, Percy E Ani, Louis Egwari. Dataset on the knowledge, attitudes and practices of university students towards antibiotics. *Data in Brief* 19:2084-2094.
20. Olasehinde, G. I., Oyeka, U. C., Oniha, M. I., Onile-ere, O. A., **Ayepola, O. O.**, Ajayi, A. A., & Egwari, L. O. (2018). Data set on Rapid Diagnostic Tests (RDTs) and microscopy for diagnosing plasmodium falciparum and plasmodium vivax. *Data in Brief*, 20, 503–509. <http://doi.org/10.1016/j.dib.2018.08.032>.
21. **Ayepola OO**, Olasupo NA, Egwari LO and Schaumburg F. Characterization of Pantone–Valentine leukocidin-positive *Staphylococcus aureus* from skin and soft tissue infections and wounds in Nigeria: a cross-sectional study. *F1000Research* 2018, 7:1155 (doi: [10.12688/f1000research.15484.1](https://doi.org/10.12688/f1000research.15484.1))
22. Adeloje, D. , Harhay, M. O., **Ayepola, O. O.**, Dos Santos, J. P., David, R. A., Ogunlana, O. O., Gadanya, M. , Osamor, V. C., Amuta, A. O., Iweala, E. E., Auta, A. and Rebbeck, T. R. (2018), Estimate of the incidence of bladder cancer in Africa: A systematic review and Bayesian meta-analysis. *International Journal of Urology*. doi:[10.1111/iju.13824](https://doi.org/10.1111/iju.13824)
23. **Ayepola, O**, Onile-Ere, O, Shodeko, O, Akinsiku, F , Ani, P , Egwari, L . (2019). Knowledge, Attitude and Pattern of Antibiotic Usage among Students of a Nigerian University. *Journal of Microbiology and Infectious Diseases*. 09 (01), 10-15. DOI: 10.5799/jmid.537133.
24. Adesina, T.; Nwinyi, O.; De, N.; **Akinnola, O.**; Omonigbehin, E. First Detection of Carbapenem-Resistant *Escherichia fergusonii* Strains Harboring Beta-Lactamase Genes from Clinical Samples. *Pathogens* **2019**, 8, 164.
25. Jacob O. Popoola, Oluwadurotimi S. Aworunse, Olusola L. Oyesola, **Olayemi O. Akinnola**, Olawole O.Obembe. “A systematic review of pharmacological activities and safety of *Moringa oleifera*”. *J Herbmed Pharmacol*. 2020; 9(3): 174-190.
26. Emmanuel Sokefun, **Olayemi Akinnola**. Cancer-Inducing Mechanisms of Representative Sexually-Transmitted Infection Pathogens. *Cell Biology*. Special Issue: *Cell Death and Mechanisms in Cancer*. Vol. 8, No. 1, 2020, pp. 12-21. doi: 10.11648/j.cb.20200801.13

Edited Books

27. **Olayemi Ayepola** (2016). Molecular Characterization of *Staphylococcus aureus* from Nigeria. Lap Lambert Academic Publishing GmbH & Co. KG. ISBN: 978-3-659-80681-0.

28. **Akinnola Olayemi Oluseun**, Ajayi Ayodeji Samuel, Ogunleye Bimpe Omowunmi, Enueme Isioma Nneamaka (2020). Disinfection by-products inswimming pools and health-related issues. Disinfection Byproducts in Drinking Water, Butterworth-Heinemann ISBN: 9780081029770 Pages 232-252. <https://doi.org/10.1016/B978-0-08-102977-0.00011-1>

Conference Papers

1. E. Sokefun, **O.O. Ayepola**, and G.I. Olasehinde, 2018. Mycotoxins: Food production and exportation in Nigeria. IOP Conference Series: Earth and Environmental Science. 210:1.
2. **O.O. Ayepola** L.O. Egwari G.I. Olasehinde (2016). Evaluation of antimicrobial and disinfectant resistant bacteria isolated from the environment of a University Health Centre. International Journal of Infectious Diseases Volume 45, 273. DOI: <https://doi.org/10.1016/j.ijid.2016.02.607>.
3. GI Olasehinde, I Fadina, OO Ayepola, AA Ajayi, LO Egwari (2016). Development of saliva based diagnostic method for malaria. International Journal of Infectious Diseases, Volume 45, 236. DOI: <https://doi.org/10.1016/j.ijid.2016.02.530>
4. **O.O. Ayepola**, N.A. Olasupo, L.O. Egwari (2014). Antibiotic resistance in *Staphylococcus aureus* from clinical and asymptomatic carriers in Nigeria. International Journal of Infectious Diseases, Volume 21, 94. DOI: <https://doi.org/10.1016/j.ijid.2014.03.623>
5. J. Popoola, A. Adebayo, O. Taiwo, **O. Ayepola**. (2014). Ethnobotanical and in vitro cytotoxicity studies of *Moringa oleifera*, *Andrographis paniculata* and *Asystasia vogeliana* extracts. *Planta Med* 2014; 80 - LP79 DOI: 10.1055/s-0034-1395113.
6. A.H. Adebayo, A.O. Abolaji, **O.O. Ayepola**, T.B. Olorunfemi, O.S. Taiwo. In vitro and in vivo antioxidant activities of the leaves of *Chrysophyllum albidum*. *Planta Med* 2011; 77 - PF26.
7. L.O. Egwari **O.O. Ayepola** B. Adekeye T. Adegbayi S. Olurunshola A. Kuye (2016). Evaluating the effect of hand washing and sanitization on the microbial burden of the hand. International Journal of Infectious Diseases, Volume 45, 277. DOI: <https://doi.org/10.1016/j.ijid.2016.02.613>
8. **Olayemi O. Ayepola**, Nurudeen A. Olasupo, Louis O. Egwari, Frieder Schaumburg (2017). Panton–valentine leucocidin expression and antibiotic resistance in *staphylococcus aureus* isolated from skin and soft tissue infections and wounds in

- Nigeria. *Antimicrobial Resistance and Infection Control* 2017, 6(Suppl 3):P261. DOI 10.1186/s13756-017-0201-4.
9. Olayemi O. Ayepola, Louis Egwari, Grace Olasehinde, Olamide Adedeji, Omotola Badejo (2017). Characterization of bacteria flora on the hands of healthcare workers. *Antimicrobial Resistance and Infection Control* 2017, 6(Suppl3):52 DOI 10.1186/s13756-017-0201-4.
 10. **O.O. Ayepola**, L.O. Egwari, G.I. Olasehinde. Microbiological assessment of the indoor air quality of a university health centre in Nigeria. *Antimicrobial Resistance and Infection Control* 2015, 4(Suppl 1):P51.
 11. **O.O. Ayepola**, L.O. Egwari, G.I. Olasehinde. Antibiotic resistance profile of *Staphylococcus aureus* clinical isolates from Nigeria. *Antimicrobial Resistance and Infection Control* 2015, 4(Suppl 1):P195.
 12. **O.O. Ayepola**, M.I. Oniha, L.O. Egwari, Susceptibility of fabrics in office furniture to microbial attack: microbial burden and health implications. *Antimicrobial Resistance and Infection Control* 2015, 4(Suppl 1):P36.
 13. L.O. Egwari, **O.O. Ayepola**, M.I. Oniha, G.I. Olasehinde. Lessons in hand washing: what we should know? *Antimicrobial Resistance and Infection Control* 2015, 4(Suppl 1):P283.

Conferences/Workshops/Courses Attended

1. Bioethics Society of Nigeria, Annual Conference, 12th – 13th December, 2019. Amber Residence Hotel, Ikeja, GRA, Lagos, Nigeria.
2. 42nd Conference of the Nigerian Society for Microbiology, 3rd – 6th September, 2019, Crawford University, Igbesa, Ogun State, Nigeria.
3. Mycotoxicology Society of Nigeria's Annual Conference, Covenant University, Ota. Sept. 2019
4. International Conference on Science and Sustainable Development, Department of Physics, Covenant University, Ota, Ogun State, Nigeria. May 6-8. 2019.
5. Keystone Symposium, Role of the Genital Tract Microbiome in Sexual and Reproductive Health conference 10 – 16 December, 2018, Cape town, South Africa
6. AWARD Grant Writing Workshop. 6th - 8th September, 2018, Covenant University, Ota, Nigeria.

7. Biotechnology Society of Nigeria (BSN) International Conference 2018, Covenant University, Ota, Nigeria. 5th – 10th August, 2018.
8. Society for Underutilized legumes Annual Conference and Stakeholders Forum 11-12th July, 2018
9. 8th International Biotechnology Conference, Exhibition and Workshop, IBCE&W 2018, Covenant University, Ota, Nigeria. 23rd – 25th March, 2018.
10. The 11th International Conference on Cancer, (AORTIC) 2017, Kigali, Rwanda 7th-10th November 2017.
11. 7th International Biotechnology Conference, Exhibition & Workshop (IBCE&W 2017). Covenant University, Ota, Nigeria. 15-17 March, 2017.
12. Alexander Von Humboldt Conference (Humboldt-Kolleg), Oshogbo 2017, College of Medicine, Ladoke Akintola University of Technology, Oshogbo.
13. National Conference/Campaign on Elimination of Baby Factories, Sales and Promoting Preventive Healthcare Practices in Nigeria, Abuja, Nigeria, November 2016.
14. 2016 Conference and Annual Symposium of the Association of Industrial Microbiologists of Nigeria (AIMN), Lagos, Nigeria November 2016.
15. 6th International Biotechnology Conference, Exhibition & Workshop (IBCE&W 2017), Covenant University, Ota, Nigeria. 6-7 March, 2016.
16. 17th International Congress on Infectious Diseases, Hyderabad, India, February 2016.
17. ISCB/ASBCB Conference on Bioinformatics 2015, Dar es Salaam, Tanzania, March, 2015.
18. 16th International Congress on Infectious Diseases, Cape Town, South Africa, April 2014.
19. 2nd International Conference on Clinical Microbiology & Microbial Genomics, Las Vegas, USA, September 2013.
20. Wellcome Trust Advanced Course on Molecular Approaches to Clinical Microbiology in Africa, 25th - 30th May, 2013, Blantyre Malawi.
21. 2nd International Conference of Women in Physics. Covenant University, Ota. 21st- 23rd May 2013.
22. International conference on science and sustainable Development in Nigeria. Faculty of Science University of Ibadan, Ibadan, Nigeria, 13th -17th may 2013.
23. Humboldt Kolleg “Osogbo 2013” International conference and Workshop, 12th – 16th March 2013, College of Medicine, Ladoke Akintola University of Technology, Oshogbo.

24. 1st International Biotechnology Symposium (IBS), 28th-30th April 2009, Covenant University, Ota, Nigeria.
25. 2nd International Biotechnology Symposium, 23rd-26th March 2010, Covenant University, Ota, Nigeria
26. Biotechnology Workshop on Applied Biotechnology and Molecular Biology. 28th July – 2nd August 2008. Applied Biotech Institute, Florida and Covenant University Ota, Ogun State.
27. Workshop on Practical Techniques in Biotechnology at University of Agriculture, Abeokuta, Ogun State. October 2006

Peer Recognition

Reviewer, African Journal of Microbiology Research

Reviewer, Annals of Science and Technology

Reviewer, Covenant Journal of Pure and Applied Sciences

Membership of Learned Societies and Professional Bodies

- i) Member, Nigerian Society for Microbiology (NSM)
- ii) Member, American Society for Microbiology (ASM)
- iii) Member, Association of Industrial Microbiologists of Nigeria (AIMN)
- iv) Member, International Society for Computational Biology (ISCB)
- v) Member, African Society for Bioinformatics and Computational Biology (ASBCB)
- vi) Member, International Society for Infectious Diseases (ISID)
- vii) Member, Organization for Women in Science for the Developing World (OWSD)
- viii) Member, Prostate Cancer Transatlantic Consortium (CapTC)
- ix) Member, Bioethics Society of Nigeria

Membership of Research Clusters

1. Member, Biotechnology Research Cluster
2. Member, Covenant University Public Health and Wellbeing Research Group
3. Member, Medicinal Plant Research Group
4. Member, Cancer Research Group
5. Member, Covenant Health Research Ethics Committee

Leadership (Skills and Traits)

1. Head of Unit, Microbiology Program, Department of Biological Sciences, Covenant University, Ota, 2014-2019.
2. Coordinator, Postgraduate Program, Department of Biological Sciences, Covenant University, Ota, 2018-2019.
3. Member, Postgraduate Board, Department of Biological Sciences, Covenant University, Ota, 2017 till date.
4. Member, College Postgraduate Committee, 2019.
5. Member, College Publications Committee, 2017-2018.
6. Member, Curriculum Committee, Department of Biological Sciences, Covenant University, Ota, 2013 till date.
7. Member, Appointment and Promotion Committee, Department of Biological Sciences, 2017 till date.
8. Member, Covenant Health Research Ethics Committee (CHREC), 2015 till date.
9. Chair, Laboratory Committee, Department of Biological Sciences, 2019 till date.
10. Member, College Laboratory Committee, Department of Biological Sciences, 2019 till date.
11. Academic Adviser, 2006-2019.
12. Supervisor, Students Industrial Work Experience (SIWES) 2012-2017.
13. Secretary Covenant University Farm Project Committee 2011-2015.
14. Project supervision of undergraduate and postgraduate students.
15. Member, Faculty Support Programme, 2013-2015.
16. Chair, Welfare Committee, 31st Annual Conference, Biotechnology Society of Nigeria, Covenant University, Ota, 2018.
17. Co-Chair, local organizing committee of International Biotechnology Conference, Exhibition and Workshop, 2020.
18. Member, Convocation Planning Committee, 2020.
19. Member of local organizing committees of International Biotechnology Symposia, 2009-2014.
20. Member of local organizing committee of International Biotechnology Conference, Exhibition and Workshop (2015-2019).
21. Chair, Welfare Committee, 13th Annual Conference, Mycotoxicological Society of
22. Member of local organizing committee for the 2008 workshop on Applied Biotechnology and Molecular Biology.

23. Member of the Convocation Award and Souvenir Committee 2008-2010.
24. Member of the Convocation Protocol Committee 2009-2010.
25. Member of the Convocation Welfare Committee 2014-2019.

Current Research

1. Investigation of the role of the human microbiome in health and disease.
2. Phenotypic and molecular characterization of pathogenic bacteria from clinical and environmental sources.
3. Epidemiology of multidrug resistant bacterial isolates.
4. Infection control in the hospital environment and the community.
5. Evaluation of the antimicrobial activity of indigenous medicinal plants.

Extracurricular Activities: Reading and research

Referees

1. Prof. S.U. Oranusi
Department of Biological Sciences,
Covenant University, Ota,
Ogun State, Nigeria.
2. Prof. K.O. Ajanaku
Department of Chemistry,
Covenant University, Ota,
Ogun State, Nigeria.
3. Prof. O.O. Obembe
Department of Biological Sciences,
Covenant University, Ota,
Ogun State, Nigeria.



Signature

August 14, 2020

Date