



# Oyetunde Timothy Oyeyemi (Formerly Oyetunde Timothy Salawu)



## A. Personal Data

1. Details of Contact Address:	Department of Biological Sciences, University of Medical Sciences, Odoshida Campus, P.M.B. 536, Ondo, Ondo State, Nigeria.
a. E-mail Addresses:	ooyeyemi@unimed.edu.ng zootund@yahoo.com
b. Mobile Phone Number:	+2348163546787
2. Nationality:	Nigerian
3. Present status	Professor
4. Academic scholarship links:	<a href="https://scholar.google.com/citations?user=P-yaqzIAAAJ&amp;hl=en">https://scholar.google.com/citations?user=P-yaqzIAAAJ&amp;hl=en</a> <a href="https://www.scopus.com/authid/detail.uri?authorId=56732871100">https://www.scopus.com/authid/detail.uri?authorId=56732871100</a>

## B. Educational Background

### 1. Higher Educational Institutions Attended with Dates:

Department	Institution	Dates
Department of Zoology	University of Ibadan, Ibadan, Oyo State, Nigeria	January, 2009 – March, 2014
Department of Zoology	University of Ibadan, Ibadan, Oyo State, Nigeria	June, 2006 – June, 2008
Department of Zoology	University of Ilorin, Ilorin, Kwara State, Nigeria	March, 2002 – June, 2005

### 2. Academic/Professional Qualifications and Distinctions Obtained with Dates:

Qualifications	Institution	Distinctions (Dates)
Ph.D. (Parasitology)	University of Ibadan, Ibadan, Oyo State, Nigeria	March, 2014
M.Sc. (Parasitology)	University of Ibadan, Ibadan, Oyo State, Nigeria	Ph.D. Grade (June, 2008)
B.Sc. (Hons) Zoology	University of Ilorin, Ilorin, Kwara State, Nigeria	Second Class (Upper Division) CGPA; 4.29/5.00

### 3. Other Distinctions and Awards with Dates:

#### (a) Scholarship

1. Murli T. Chellaram Foundation Scholarship Financial assistance to carryout part of Ph.D. research	2009
2. University of Ibadan Postgraduate School Scholar A three-year scholarship awarded by the Postgraduate School, University of Ibadan, to carry out my Ph.D. research work	2009-2012

**(b) Fellowship**

1. Fulbright African Research Scholar Programme (2022-2023 Awardee) – tenable at the Old Dominion University, Virginia, United States of America Nov. 2022 – July, 2023
2. Postdoctoral Research, Rene Rachou Institute Fundação Oswaldo Cruz – FIOCRUZ, Belo Horizonte, Brazil May 2019 – Sept. 2020  
Research topic: Identification of protein markers for diagnosis of schistosomiasis.
3. University of Essex International Visiting Fellowship 10-24 March 2019  
An international fellowship to initiate a partnership with a faculty in the University of Essex in order to develop capacity on the use of microRNA in diagnosis of schistosomiasis. Award tenable at the University of Essex, United Kingdom.
4. Africa Research Excellent Fund (AREF) Excell Fellowship Programme 2018 - 2020  
The fellowship was to build the capacity of African 'rising stars' in leadership skills in global health. The training was undertaken in different countries as follows:  
  
*Excell Researcher and Leadership Development Programme Workshop IV, African Population and Health Research Center (APHRC), Nairobi, Kenya, 26 - 28 February, 2020*  
  
*Excell Researcher and Leadership Development Programme Workshop III, Lake Victoria Hotel, Entebbe, Uganda, January, 21-27, 2019*  
  
*Excell Researcher and Leadership Development Programme Workshop II, Moller Centre, University of Cambridge, United Kingdom, October, 1-3, 2018*  
  
*Excell Researcher and Leadership Development Programme Workshop I, Dakar, Senegal, May 29-31, 2018*
5. ANDI/ASRT Training and Fellowship Programme 2015  
Project Based Programme on Development, Production and Access to Diagnostics at the Immunology Department in Theodor Bilharz Research Institute (TBRI), Cairo, Egypt, November 1-December 11, 2015.
6. Postdoctoral Research, Product Development Cell, April – Oct. 2014  
National Institute of Immunology, New Delhi, India.  
Research topic: Polymeric particles dual entrapments of curcumin with artesunate and nisin for improved antimalarial and anticancer therapy.

**(c) Research Grants**

1. Africa Research Excellent Fund – Excell Programme Capacity Building Grant. 2021  
Grant awarded to AREF-Excell Fellows and Academic Lead to Organize a capacity building workshop for young Nigerian scientists (Value = €20,000)
2. National Research Fund (NRF) – Tertiary Education Trust Fund (TETFund) 2021  
Principal investigator of a project on identifying common protein

markers for *Schistosoma* spp. (Value = ₦ 30 million)

3. Seeding Labs Instrumental Access Grant 2019  
A principal co-applicant for the instrumental access grant to develop the Molecular Biology Unit of my Department  
(Equipment worth = \$150,000)
4. Africa Research Excellent Fund – Excell Programme Capacity Building Grant. 2018  
Grant awarded to AREF-Excell Fellows and Academic Lead to organize a capacity-building workshop for young Nigerian scientists (Value = €10,000)
5. Babcock University Research Small Access Grant 2017  
Principal investigator of a project on association of urogenital schistosomiasis and bladder pathologies (Value = ₦450,000)
6. Systematics Research Fund 2015  
Co-principal investigator on a project on molecular identification of freshwater snails which are potential hosts of schistosomes – funded by the Linnean Society of London and the Systematics Association, UK, 2015 (Value = \$ 5000)

#### **(d) National Awards**

1. Fellow, Nigerian Science Leadership Programme 2024
2. Outstanding Researcher of the Year (Senior Academics Category) – University of Medical Sciences, Ondo 2022
3. Vice Chancellor Award of Best Researcher of the Year 2018  
University of Medical Sciences Vice Chancellor Award to the most published researcher in reputable journals in 2018
4. Award of Publications in Ph.D. Thesis 2013  
Award of publication of two (2) reputable articles from Ph.D. work before completion of the programme. Awarded by the Postgraduate School, University of Ibadan, Ibadan.
5. Best Graduating B.Sc. Student in the Department of Zoology 2005  
Award given to student with the highest Cumulative Grade Point Average (CGPA) in the Department of Zoology, University of Ilorin, Ilorin, Kwara State - 2004/2005 graduating set (CGPA 4.29/5.00).

#### **(e) International awards/Travel Grants**

1. SPARK AFRICA Translational Research Bootcamp and Conference in Mozambique, August 5-12th, 2024. 2024
2. Tertiary Education Trust Fund (TETFund) – European Union Horizon Grant Proposal Writing – University of Turku, Finland, June 20 –26, 2022. 2022
3. ASTMH/BMGF Annual Meeting Travel Awards – Being an award to attend ASTMH 2021 Annual Meeting, November 17-21, 2021, USA. 2021
4. Travel Grant to attend course on 'Middle Eastern Biology of Parasitism – University of Bern, Bern, Switzerland, July 23 – August 6, 2017. 2017

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|----|---|------|
| 5. | Travel Award to attend the Eight EDCTP Forum. <i>"Defeating poverty-related and neglected diseases in Africa: harnessing research for evidence-informed policies"</i> . Lusaka Zambia, 6-9 November, 2016.  | 2016 |
| 6. | The Global Health Travel Award funded by the Bill & Melinda Gates Foundation to attend the Keystone Symposium <i>"Co-infection: A Global Challenge for Disease Control,"</i> which took place on March 15-20, 2015, at the Centro de Artes e Convenções (UFOP), Ouro Preto, MG, Brazil. | 2015 |
| 7. | Travel Award to attend the Second Thematic School at LabEx CEBA, Merida Yucatan, Mexico, sponsored by French Ministry of Research and Higher Education November 17-22, 2014.  | 2014 |
| 8. | Travel Award to attend the Africa Bio-Mathematics Initiative Workshop on Genetics and Disease Control August 8 - 12, 2011. University of Cape Coast, Cape Coast, Ghana.   | 2011 |

## C. Work Experience with Date

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| <b>1. Previous Work Experience in Other Universities</b>   | 2012 - 2017    |
| i. Babcock University, Ilishan-Remo, Ogun State, Nigeria   |                |
| Position: Lecturer   |                |
| Roles/Responsibilities (Department):   |                |
| <ul style="list-style-type: none"> <li>• Developed pedagogical skills</li> <li>• Executed institutional-based funded project</li> <li>• Facilitated training and research opportunity linkage between faculty members and international partners</li> </ul>  |                |
| <b>2. Work Experience in University of Medical Sciences, Ondo</b>  | 2017 till date |
| Professor, Department of Biosciences and Biotechnology   |                |
| Roles/Responsibilities (Department):   |                |
| <ul style="list-style-type: none"> <li>• Coordinated the activities of the Department as a past Acting Head of Department</li> <li>• Chaired the Department of Biological Sciences Research group</li> <li>• Developed questions for quizzes, exams, and homework</li> <li>• Revised courses curricula to meet up with the accreditation standards</li> <li>• Teach and supervise undergraduate and postgraduate students</li> </ul> |                |
| <b>3. Undergraduate Courses Taught</b>   | 2017 till date |
| Biological Techniques, Invertebrate Zoology, Vertebrate Zoology, Environmental Science, Biology of Tropical Parasites, Principles of Parasitology, Biostatistics and Experimental Design, Immunology, Physiology, Ecology.   |                |
| <b>4. Postgraduate Courses Taught</b>  | 2022 till date |
| Biostatistics, Cellular Organisation and Compartmentalization, Parasite Immunology, Physiology and Biochemistry of Parasites, Diseases and Transmission of Parasitic Protozoans, Transmission and Diseases of Helminth Parasites, Molecular Techniques in Parasitology, Macromolecular Structures and Functions.   |                |

## 5. Current Graduate Student Supervision

- i. Kabirat Sulaiman – Identifying common markers for diagnosis schistosomiasis (Ph.D).
- ii. Olusola Osunyemi – Developing proteomics and metabolomics-based non-invasive diagnostic approaches for schistosomiasis.
- iii. Bolatito Oluwabiye – Impact of schistosomiasis on malaria preventive treatment during pregnancy (Ph.D).
- iv. Tajudeen Oriade – Developing *Schistosoma* worm antigen duplex-based diagnostic approaches for schistosomiasis (Ph.D).
- v. Adedayo Adesida – Identification of protein diagnostic marker for *Fasciola gigantica* (M.Sc).
- vi. Precious Irabor - Serological diagnosis of urogenital schistosomiasis using admixture of *Schistosoma* antigens (M.Sc).

## D. Membership in Professional Bodies

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1. American Society of Tropical Medicine & Hygiene (ASTMH) - member
2. Zoological Society of Nigeria (ZSN) - member
3. Malaria Research Network (MRN) - member
4. International Society for Infectious Diseases (ISID) - member
5. Society for Mosquito Control of Nigeria (SMCN) - member
6. Animal care and use in research, education and testing organization (ACURET) - member
7. Genetic Association of America (GSA) - member
8. African Society for Laboratory Medicine (ASLM) - member
9. African Scientific Institute – Fellow
10. Nigerian Young Academy – Fellow
11. Africa Research Excellence Fund (AREF) - Excel Fellow
12. Nigerian Science Leadership Programme – Fellow

## E. Publications

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### 1. Thesis/Dissertation

- i. Doctoral Thesis Research: Human schistosomes infection among pregnant women, preschool children and freshwater snails species in Yewa North Local Government Area, Ogun State, Nigeria
- ii. Master's Thesis Research: Molluscicidal efficacy of ethanolic extract of *Hyptis suaveolens* on *Bulinus globosus*.
- iii. B.Sc. Thesis: Efficacy of *Acalypha torta* against *Callosobruchus maculatus* (beans weevil).

### 2. Books and Monographs

- i. Aina, D.A., **Oyeyemi, O.T.**, Odutayo, F.O.I. and Oyewole, I.O. (2015). Plant and Animal Diversity: Practical Manual for Degree Students. ISBN: 978-178-443-8, pp100.
- ii. Aina, D.A., **Oyeyemi, O.T.**, Odutayo, F.O.I. and Oyewole, I.O. (2015). Biology Practical Manual for Degree Students. ISBN: 978-178-443-1, pp122.

- iii. **Salawu, O.T.** (2012). Helminthology (Course manual). Edited by Moro, D.D. National Open University of Nigeria. pp128.

### 3. Contribution to Books

- i. Adetunji, C.O. and **Oyeyemi, O.T.** (2022). Antiprotozoal activity of some medicinal plants against *Entamoeba histolytica*, the causative agent of amoebiasis. *Medical Biotechnology, Biopharmaceutics, Forensic Science and Bioinformatics*, 1<sup>st</sup> Edition, CRC; 18 pages. eBook: ISBN9781003178903
- ii. **Salawu, O.T.** (2015). Polymeric particles dual entrapments of curcumin with artesunate and nisin for improved antimalarial and anticancer therapy. Project completion reports of RTF-DCS fellows: Compendium, pp123-132.

### 4. Published Journals Articles

*Note asterisk (\*) denotes corresponding author role and **Oyeyemi O.T.** was formerly **Salawu, O.T.***

1. Ajakaye, O.G., Enabulele, E.E., Balogun, J.B., **Oyeyemi, O.T.** and Grigg, M.E.\* (2024). Extant interspecific hybridization among trematodes within the *Schistosoma haematobium* species complex in Nigeria. *PLoS Neglected Tropical Diseases* 18(4): e0011472.
2. Schumacher, A.E., Kyu, H.H., Aali, A., ..... **Oyeyemi, O.T.**, Ozten, Y. et al. (2024). Global age-sex-specific mortality, life expectancy, and population estimates in 204 countries and territories and 811 subnational locations, 1950-2021, and the impact of the COVID-19 pandemic: a comprehensive demographic analysis for the Global Burden of Disease Study 2021. *Lancet* 403: 1989–2056.
3. **Oyeyemi, O.T.**,\* Ogundahunsi, O., Mirjam, S.R., Fatem, G., Shollenberger, L.M. (2024). Neglected tropical disease (NTD) diagnostics: current development and operations to advance control. *Pathogens and Global Health*, 118(1):1-24.
4. Brauer, M.,\* Roth, G.A.,\* Aravkin, A.Y., ..... **Oyeyemi, O.T.**, et al., (2024) Global burden and strength of evidence for 88 risk factors in 204 countries and 811 subnational locations, 1990–2021: a systematic analysis for the Global Burden of Disease Study 2021. *Lancet* 403: 2162–2203.
5. Okunlola, O., Oloja, S., Ebiwonjumi, A., **Oyeyemi, O.T.**\* (2024). Vegetation index and livestock practices as predictors of malaria transmission in Nigeria. *Scientific Report* 14: 9565.
6. Vollset, S.E.,\* Ababneh, H.S., Abate, Y.H., ..... Owolabi, M.O., **Oyeyemi, O.T.**, Ozair, A. et al., (2024). Burden of disease scenarios for 204 countries and territories, 2022–2050: a forecasting analysis for the Global Burden of Disease Study 2021. *Lancet* 403: 2204–2256
7. **Oyeyemi, O.T.**,\* Okunlola, O.A. (2023). Soil-transmitted helminthiasis (STH) endemicity and performance of preventive chemotherapy intervention programme in Nigeria (in year 2021). *Scientific Report* 13: 10155.

8. Okunlola, O.A., Oyerinde, O.R., Fashina, I.D., **Oyeyemi, O.T.\*** (2023). Vaccination compliance of selected childhood immunization programs and the socio-determinant factors in Nigeria. *Journal of Infection in Developing Countries* 17:1466–1473.
9. **Oyeyemi, O.T.,\*** Okunlola, O.A., Fu, Z., Hong, Y., Chen, J-H. and Shollenberger, L.M. (2023). Livestock cattle as a predictor of schistosomiasis transmission in Nigeria. *The Microbe*, Volume 1, 2023, 100021.
10. Okeke, I.J., Morenikeji, O.A., **Oyeyemi, O.T.\*** (2023). Evaluation of anti-helminthic activities of ethanolic extracts of *Calotropis procera* and *Morinda lucida* on adult *Fasciola gigantica*. *Journal of Advanced Veterinary Research* 13(5): 761-766.
11. Oyeyemi, I.T.,\* Ojo, T.D., **Oyeyemi, O.T.** (2023). Botany, traditional uses, phytochemistry and biological activities of *Hoslundia opposita* P. beaur. *Current Traditional Medicine*, 9(4): Article ID: e210922209033.
12. **Oyeyemi, O.T.,\*** Babalola, B.M., Akinmulero, T.C., Adesida, P.A., Oyeyemi, I.T. (2023). Molluscicidal activities of green-synthesized *Alstonia congensis* silver nanoparticles. *Asian Pacific Journal of Tropical Biomedicine* 13(4): 176-183.
13. Okeke, I.J., **Oyeyemi, O.T.,\*** Morenikeji, O.A. (2022). Ovicidal and miracidial activities of *Calotropis procera* and its green-synthesized nanotized derivative: a quest for new antifasciola agents. *Acta Tropica*, Volume 236:106700.
14. **Oyeyemi, O.T.,\*** Eneh, C.G. and Okeke, I.J. (2022). Molluscicidal activities of ethanolic extracts of *Calotropis procera* and *Morinda lucida* against *Lymnaea natalensis*. *Acta Biologica Szegediensis*, 66(1):69–73.
15. Grenfell, R.,\* **Oyeyemi, O.T.** (2022). Access to COVID-19 vaccines and testing in Africa: the importance of COVAX - Nigeria as a case study. *Pathogens and Global Health* 117(2):152-166.
16. **Oyeyemi, O.T.,\*** Oyeyemi, I.T., Irabor, P.C., Adebimpe, W.O. (2022). Urogenital schistosomiasis as risk of hepatic and renal dysfunctions: a preliminary study. *Acta Microbiologica Bulgarica*, 38(2): 148 – 150.
17. de Assis, J.V., Coutinho, L.A., Oyeyemi, I.T., **Oyeyemi, O.T.,** Grenfell, R.\* (2022). Diagnostic and therapeutic biomarkers in colorectal cancer: a review. *American Journal of Cancer Research*, 12(2): 661–680.
18. **Oyeyemi, O.T.,\*** Oladoyin, V.O., Okunlola, O.A., Mosobalaje, A., Oyeyemi, I.T., Adebimpe, W.O., Nwuba, R.I., Anuoluwa, I.I., Tiamiyu, A.M., Ovuakporie-Uvo, O.O., Adesina, I.A., Olatunji, B.P., Kone, J.K., Oluwafemi, Y.D., Obajaja, C.O., Ajiboye, A.A. (2021). COVID-19 pandemic: an online-based survey of knowledge, perception, and adherence to preventive measures among educated Nigerian adults. *Journal of Public Health: From Theory to Practice*, 30(6), 1603–1612.
19. Okunlola, O.A., **Oyeyemi, O.T.\*** (2022). Malaria transmission in Africa: Its relationship with yellow fever and measles. *PLoS ONE* 17(5): e0268080.
20. Pedrosa, M.L., de Oliveira, A., Pereira, C., Corsini, C., Teixeira, S., de Oliveira, A.,

- Katz, N., **Oyeyemi, O.T.**, Grenfell, R.\* (2021). Dot blot platform as a novel diagnostic kit: rapid, accurate, and on-site detection of *Schistosoma mansoni* in urine samples of hard to detect individuals. *Parasitology Research* 120, 3795–3803.
21. Okunlola, O.A., **Oyeyemi, O.T.**,\* Lukman, A.F. (2021). Modeling the relationship between malaria prevalence and insecticide-treated bed nets coverage using Leroux prior Bayesian spatial generalized linear mixed models. *Epidemiology and Health* e2021041.
  22. **Oyeyemi O.T.**,\* Corsini, C.A., Gonçalves, G., Borges, W.C., Grenfell, R.R.Q.\* (2021). Evaluation of immunodiagnostic potential of schistosomula crude antigen (SCA) in *Schistosoma mansoni* infected human population. *Scientific Report* 11, 10530.
  23. **Oyeyemi, O.T.**\* (2021). Application of nanotized formulation in the control of snail intermediate hosts of schistosomes. *Acta Tropica* 220; 105945.
  24. **Oyeyemi, O.T.**,\* Akinseye, K., Odewuyi, I., Olayinka R., Ajibawo, O., Ogunleye, I., Oyeyemi, I. (2021). Malaria transmission and insecticide-treated nets (ITN) utilization among orphans and vulnerable children in Nigeria. *Journal of Interdisciplinary Medicine* 6(2):82-86.
  25. **Oyeyemi, O.T.**,\* Oyeyemi, I.T., Alamukii, N.A., Kone, J.K., Oyerinde, O.R., Anuoluwa, I.A., Ovuakporie-uvo, O.O., Adesina, I.A., Oluwafemi, Y.D., Ogoanah, S.O., Tiamiyu, A.M. (2021). *Cryptosporidium* and colorectal cancer: a review of epidemiology and possible association. *Forum of Clinical Oncology* 12(2): 1–10.
  26. **Oyeyemi, O.T.**,\* Oyeyemi, I.T., Adesina, I.A., Tiamiyu, A.M., Oluwafemi, Y.D., Nwuba, R.I., Grenfell, R.R.Q. (2020). Toxoplasmosis in pregnancy; a neglected bane but a serious threat in Nigeria. *Parasitology* 147(2): 127-134.
  27. **Oyeyemi, O.T.**,\* Etim. E.J. (2020). Malaria and HIV infections among febrile patients in Lagos, Southwestern, Nigeria. *Journal of Interdisciplinary Medicine* 5(2):43-47.
  28. **Oyeyemi, O.T.**,\* Okunlola, O. and Adebayo, A.D. (2020) Assessment of schistosomiasis endemicity and preventive treatment on coronavirus disease 2019 outcomes in Africa. *New Microbes and New Infections* 38; 100821.
  29. **Oyeyemi, O.T.**,\* Jeremias, W.J., Grenfell, R.F.Q. (2020). Schistosomiasis in Nigeria: gleaning from the past to improve current efforts towards control. *One Health* 11;100183.
  30. Ibrahim, M., Atilola, O., Mohammed, A., Awosanya, E., Odetokun, I., Muhammad, A., Chukwudi, C., Ukwaja, K., **Oyeyemi, O.T.**\* (2020). Cerebral malaria and toxoplasmosis; a possible deadly partners for neuropsychiatric disorders. *Annals of Science and Technology* 5 (2): 24-39.
  31. **Oyeyemi, O.T.**\* (2020). Schistosomiasis control in Nigeria: moving round the circle? *Annals of Global Health* 86(1): 74, 1–3.
  32. Odimayo, M.S.,\* Adebimpe, W.O., Jeff-Agboola, Y.A., **Oyeyemi, O.T.**, Okiei, B.N., Adejumo, O.A., Osungbemiro, B.W., Olajuyigbe, E.O., Igbofe, K.R., Temitayo-Oboh, A.O., Faboya, T., Oludiran, M.O., Ntoimo, L. and Okonofua, F.E. (2020). Screening, Vaccination, and Referrals as Viral Hepatitis Elimination Triad Among Internally Displaced Persons in Edo



State, Nigeria. *Clinical Liver Disease (Hoboken)* 10;16(5):218-222.

33. Okunlola, O.A., **Oyeyemi, O.T.\*** (2019). Spatio-temporal analysis of association between incidence of malaria and environmental predictors of malaria transmission in Nigeria. *Scientific Reports* 9;17500.
34. Omobhude, M.E., Morenikeji, O.A., **Oyeyemi, O.T.\*** (2019). Molluscicidal activities of curcumin-nisin polylactic acid nanoparticle (PLA) on adult snail intermediate hosts of schistosomes and *Fasciola* spp. *Advanced Research in Life Sciences* 3(1):28-32.
35. Oyeyemi, I.T.,\* Akinseye, K.M., Adebayo, S.S., Oyetunji, M.T., **Oyeyemi, O.T.** (2019). Ethnobotanical survey of the plants used for the management of malaria in Ondo State, Nigeria. *South African Journal of Botany* 124: 391-401.
36. Nabofa, W.,\* Alashe, O., **Oyeyemi, O.T.**, Attah, A., Oyagbemi, A., Omobowale, T., Adedapo, A., Alada, A. (2018). Cardioprotective effects of curcumin-nisin based poly lactic acid nanoparticle on myocardial infarction in guinea pigs. *Scientific Reports* 8:16649.
37. Ezekiel, C.,\* **Oyeyemi, O.T.**, Oyedele, O., Ayeni, K., Oyeyemi, I., Nabofa, W., Nwozichi, C., Dada, A. (2018). Urinary aflatoxin exposure monitoring in rural and semi-urban populations in Ogun state, Nigeria. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment* 35(8):1565-1572.
38. **Oyeyemi, O.T.**,\* Olowookere, D., Ezekiel, C., Oso, G. and Odaibo, A. (2018). The impact of chemotherapy, education and community water supply on schistosomiasis control in a Southwestern Nigerian village. *Infection, Disease & Health* 23(2):121-123.
39. Nwofor, S.C., Morenikeji, O.A., Adeoye-Isijola, O.M., **Oyeyemi, O.T.\*** (2018). Inhibitory activities of ethanolic extracts of two macrofungi against eggs and miracidia of *Fasciola* spp. *Open Life Sciences* 13: 504–510.
40. **Oyeyemi, O.T.**,\* Morenikeji, O., Afolayan, F., Dauda, K., Busari, Z., Meena, J., Panda, K. (2018). Curcumin-Artesunate Based Polymeric Nanoparticle; Antiplasmodial and Toxicological Evaluation in Murine Model. *Frontiers in Pharmacology* 9:562.
41. **Oyeyemi, O.T.**,\* Ezekiel, C., Ayeni, K., Nabofa, W., Oyeyemi, I., Oyedele, O., Adefalujo, A., Nwozichi, C., Dada, A. (2018). A pilot biomonitoring study of bladder tumour antigen (BTA) in aflatoxin exposed Nigerian villagers. *African Journal of Urology* 24(2); 152-156.
42. Afolayan, F.I.D.,\* Erinwusi, B. and **Oyeyemi, O.T.** (2018). Immunomodulatory activity of curcumin-entrapped poly d,l-lactic-co-glycolic acid nanoparticles in mice. *Integrative Medicine Research*, 7(2); 168-175.
43. **Oyeyemi, O.T.**,\* Adegbeyeni, O., Oyeyemi, I.T., Meena, J., Sahu, D., Panda, A.K. (2018). In vitro ovicidal activity of poly lactic acid curcumin-nisin co-entrapped nanoparticle against *Fasciola* spp. eggs and its reproductive toxicity. *Journal of Basic and Clinical Physiology and Pharmacology*, 29(1), 73-79.
44. **Oyeyemi, O.T.**,\* Adefalujo, A., Ayeni, K., Nabofa W, Nwozichi C, Dada A and Yusuf A. (2018) Urinary bladder thickness, tumor antigen, and lower urinary tract symptoms in a low *Schistosoma haematobium*-endemic rural community of Nigeria. *Urological Science*

45. Oyeyemi, I.T., Akinlabi, A.A., Adewumi, A., Aleshinloye, A.O. and **Oyeyemi, O.T.\*** (2018). *Vernonia amygdalina*. A folkloric herb with anthelmintic properties. *Beni-Suef University Journal of Basic and Applied. Science* 7: 43–49.
46. Nwadike, F.N.,\* Agbolade, O.M., **Oyeyemi, O.T.** (2017). Parasitic contamination of some fresh vegetables in a local community of Ilishan Remo, Ogun State, Nigeria. *Journal of Public & Allied Health Sciences*, 2:79-84.
47. **Oyeyemi, O.T.,\*** Odaibo, A.B. (2017). Maternal urogenital schistosomiasis; monitoring disease morbidity by simple reagent strips. *PLoS ONE* 12 (11): e0187433.
48. Omobhude, M.E., Morenikeji, O.A., **Oyeyemi, O.T.\*** (2017). Molluscicidal activities of curcumin-nisin polylactic acid nanoparticle on *Biomphalaria pfeifferi*. *PloS Neglected Tropical Diseases*, 11(8): e0005855.
49. Dauda, K., Busari, Z., Morenikeji, O., Afolayan, F., **Oyeyemi, O.T.,\*** Meena, J., Sahu, D., Panda A. (2017). Poly-D,L-lactic-co-glycolic acid-based artesunate nanoparticles; formulation, antimalarial and toxicity assessments. *Journal of Zhejiang University – Science B (Biomedicine & Biotechnology)*, 18(11):977-985.
50. Busari, Z.A., Dauda, K.A., Morenikeji, O.A., Afolayan, F., **Oyeyemi, O.T.,\*** Meena, J., Sahu, D., Panda, A.K. (2017). Antiplasmodial activity and toxicological assessment of curcumin PLGA-Encapsulate nanoparticles. *Frontiers in Pharmacology*, 8:622.
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85. Adetunji, V.O.,\* **Salawu, O.T.** (2010). Efficacy of ethanolic leaf extracts of *Carica papaya* and *Terminalia catappa* as molluscicides against the snail intermediate hosts of schistosomiasis. *Journal of Medicinal Plants Research*, 4(22):2348-2352.

#### **4. Submitted publications with peer review process**

1. Okeke, I.J., **Oyeyemi, O.T.**,\* Morenikeji, O.A. Green synthesized *Morinda lucida*-mediated nanoparticles and its biological activities against the ova and miracidia of *Fasciola gigantica*.
2. **Oyeyemi, O.T.**, Shollenberger, L.M.\* Leveraging cross-reactivity for dual serological detection of closely related *Schistosoma* species.
3. **Oyeyemi, O.T.**\* Irabor, P.C., Oriade, T.O., Sulaiman, K.A., Afolayan, F.I.D., Auta, T., Odaibo, A.B., Fatem, R.G. and Grenfell, R.F.Q. Enhancing serological diagnosis of urogenital schistosomiasis with admixtures of antigens from *Schistosoma* eggs and worms.
4. Adesida, A., Oriade, T., Sulaiman, K., Afolayan, F., Auta, T., Akanbi, I., Aladegboye, M., Nwuba, R., Odaibo, A., **Oyeyemi, O.\*** *Fasciola* worm and egg-derived antigens: exploring their diagnostic potential for urogenital schistosomiasis in resource-limited endemic regions.
5. Sulaiman, K.A., Oriade, T.O., Auta, T., Afolayan, F.I.D., Odaibo, A.B., Grenfell, R.F.Q., Fatem, R.G., **Oyeyemi, O.T.\*** Serodiagnosis of urogenital schistosomiasis and profiling of immunoreactive protein(s) in *Schistosoma haematobium* soluble egg and adult worm antigens.

#### **5. Technical Reports**

1. Project – Assessment of Application of Equity in Neglected Tropical Diseases (NTDs) Programming in sub-Saharan Africa (SSA). Being a technical report submitted to the African Population and Health Research Centre (APHRC), Nairobi, Kenya.

### **F. Professional Accomplishment**

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1. Project Coordinator
  - i. Executed institutional-based projects
  - ii. Coordinated and executed faculty-based projects
  - iii. Coordinated and executed departmental-based projects
  - iv. Won equipment access grant for my Department
2. Established research partnerships with many international partners (see below):
  - i. Prof. Dr. Ibrahim R. Aly Shalash - Immunoparasitology Immunology and Evaluation of Drug Department Theodor Bilharz Research Institute
  - ii. Professor Yang Hong – Key Laboratory of Animal Parasitology, Ministry of Agriculture of China, Shanghai Veterinary Research Institute
  - iii. Dr. Amulya Panda – National Institute of Immunology, New Delhi, India

- iv. Dr. Antonio Marco – School of Biological Sciences, University of Essex, United Kingdom
  - v. Dr. Rafaella Fortini Queiroz Grenfell - Diagnosis and Therapy of Infectious Diseases and Cancer Laboratory - DATA, René Rachou Institute, Fundação Oswaldo Cruz, Belo Horizonte, Minas Gerais, Brazil.
  - vi. Prof. Wander de Jesus Jeremias - School of Pharmacy, Federal University, Ouro Preto, Minas Gerais, Brazil.
  - vii. Prof. Dr. Thorsten Burmester – Zoological Institute, University of Hamburg, Hamburg, Germany.
  - viii. Dr. Lisa M Shollenberger - Biological Sciences, Old Dominion University, Mills Godwin Building, Norfolk, VA, USA.
  - ix. Prof. Olalekan Uthman – Health Sciences, Warwick Medical School, University of Warwick, United Kingdom.
3. Facilitate linkages of University's research groups with international partners (as the University's Research Support Officer)
- i. The Institute of Health Humanities and Entrepreneurship (IHHE), University of Medical Sciences, Ondo with Liverpool John Moores University and Teenpreneurs Educational Foundation on the programme. This resulted in winning a £100,000 British Council grant.
4. Research accomplishment
- i. Identified some protein biomarkers for possible diagnosis of schistosomiasis
  - ii. Discovered some exotic freshwater snails which are not native to Nigeria water bodies but are potential intermediate hosts of schistosomes.
  - iii. Established possible interactions between freshwater snails for possible biological control of schistosomiasis
  - iv. Discovered novel nanotize drugs for possible treatment of malaria, schistosomiasis, fascioliasis and cardiovascular disease.
  - v. Established the implication of malaria parasite coinfection with *Schistosoma haematobium* on immunodiagnosis of urogenital schistosomiasis.
  - vi. Listed among top 500 authors, by Scholarly Output in Nigeria over the period 2014 to >2019 (no. 294).

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

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### **a) Conference Papers**

(Abstract-Reviewed)

- 1. **Salawu, O.T.\*** and Adetunji, V.O. Efficacy of ethanolic leaf extracts of *Carica papaya* and *Terminalia catappa* as molluscicides against the snail intermediate hosts of schistosomiasis. Oral presentation at the 6th annual conference of Zoological Society of Nigeria held at the Conference centre, University of Ibadan, Ibadan. Nigeria, March 1-5, 2010. Abstract no. AB046, p46.
- 2. **Salawu, O.T.\*** and Odaibo, A.B. Schistosomiasis during pregnancy among the neglected populations of rural communities in Nigeria. Oral presentation at Africa Bio-Mathematics Initiative; Workshop on Genetics and Disease Control August 8 - 12, 2011. University of Cape Coast, Cape Coast, Ghana.
- 3. **Salawu, O.T.\*** and Odaibo, A.B. Measuring morbidity associated with urogenital schistosomiasis in low endemic rural population of Nigerian. Oral presentation at Young Academy 2nd General Assembly/National Conference, Nnamdi Azikwe University, Awka, Nigeria, 7-9th June, 2012

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4. **Salawu, O.T.,\*** Ogunlade, A.F. and Oyewole, I.O. Evaluation of rapid diagnostic test (RDT) for the diagnosis of malaria in Ijebu Ode, Ogun State, Nigeria. Oral presentation at the Faculty of Science International Conference, University of Ibadan, Ibadan, Nigeria. Abstract no. SSD059.
  5. **Salawu, O.T.,\*** Odaibo, A.B. and Akinwale O.P. Maternal schistosomiasis in rural communities of Nigeria; sociocultural practices and freshwater snails as transmission factors. Oral presentation at the 5th General Assembly and National Conference, Nigerian Young Academy, held at the Federal University of Technology, Minna, Nigeria, 18th-24th May, 2015.
  6. **Salawu, O.T.,\*** Esume, C.N. and Arisere, S. Prevalence of human immunodeficiency virus (HIV) in *Trichomonas vaginalis* infected women in Badagry, Lagos, Nigeria. A poster presentation at the Keystone Symposium "Co-infection: A Global Challenge for Disease Control," which took place on March 15-20, 2015, at the Centro de Artes e Convenções (UFOP), Ouro Preto, MG, Brazil. Poster no. 2010.
  7. **Oyeyemi, O.T.\*** and Odaibo, A.B. Maternal urogenital schistosomiasis; monitoring disease morbidity by simple reagent strips. Presented at the 8th EDCTP Forum – “Defeating poverty-related and neglected diseases in Africa: harnessing research for evidence-informed policies”. Lusaka Zambia, 6-9 November, 2016. (Poster no. P150).
  8. **Oyeyemi, O.T.,\*** Morenikeji, O., Afolayan, F., Dauda, K., Busari, Z., Meena, J., and Panda, K. (2018). Curcumin-Artesunate Based Polymeric Nanoparticle; Antiplasmodial and Toxicological Evaluation in Murine Model. Presented at AAUA HUMBOLDT-KOLLEG Conference held on June 4-7, 2018 at Adekunle Ajasin University, Akungba-Akoko, Ondo State, Nigeria. (Abstract no. OR-055, pg. 64).
  9. **Oyeyemi, O.T.,\*** and Okunlola, O.A. (2021). Assessment of schistosomiasis endemicity and preventive treatment on coronavirus disease 2019 outcomes in Africa. COVID-19 Research Agenda – Public Health Grand Round, School of Public Health, University of Medical Sciences, Ondo – 17 March, 2021.
  10. **Oyeyemi, O.T.,\*** Corsini, C., Gonçalves, G., Borges, W.C. and Grenfell, R.R.Q. (2021). Evaluation of immunodiagnostic potential of schistosomula crude antigen (SCA) in *Schistosoma mansoni* infected human population. Molecular Parasitology Meeting, MBL in Woods Hole, United States - October 05-09, 2021 (Virtual meeting).
  11. **Oyeyemi, O.T.,\*** Adesida, P. and Oyeyemi, I.T. (2022). Comparative evaluation of molluscicidal activities of ethanolic extract of *Alstonia congensis* and its green-synthesis nanotized derivative. The Third Nigerian Academy of Science (NAS) Scientific Conference, Abuja, Nigeria – 25-26 Jan., 2022.
  12. **Oyeyemi, O.T.\*** and Shollenberger L.M. (2024). Development of antigen-based multiplex immunodiagnosics for two predominant *Schistosoma* parasites in sub-Saharan Africa. 5th NAS Annual Scientific Conference, 23 – 24 January, 2024.

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**b) Conference Attended (without Paper Presentation)**

1. TWAS ROSSA Young Scientists' Conference and 6th General Assembly of the Nigerian Young Academy (NYA). Inclusive growth and sustainable development in Africa: the role of young academies. Held on 23rd -24th August, 2016, Sheraton Hotel, Ikeja, Lagos, Nigeria.
2. Conference and 7th General Assembly (GA) of the Nigerian Young Academy (NYA). Combating recession through research and innovation: leveraging on the Nigerian content. Held at Federal University of Petroleum Resources (FUPRE), Effurun, Delta State on 7th-9th August, 2017.
3. SPARK AFRICA Translational Research Bootcamp and Conference held in Gorongosa National Park, Mozambique.

**c) Workshop and Seminars Attended**

1. Workshop on 'Writing Grant-winning Research Proposal' for research students. June 16-17, 2010, Postgraduate School, University of Ibadan.
2. Workshop on the Use of Genomics and Postgenomics in the Control Schistosomiasis in Nigeria. NABDA-Abuja, December, 14-18, 2010.
3. Africa Bio-Mathematics Initiative; Workshop on Genetics and Disease Control August 8 - 12, 2011. University of Cape Coast, Cape Coast, Ghana.
4. The Nigerian Academy of Science 13th Annual Meeting of African Science Academies (AMASA-13). Held at 15th- 16th November, 2017 Abuja, Nigeria.
5. Training course on 'Middle Eastern Biology of Parasitism', University of Bern, Bern, Switzerland (July 23 – August 6, 2017).
6. Workshop on Species-specific diagnosis held at the Biomedical Training & Cancer Research Centre, Nigerian Institute of Medical Research, Yaba Lagos, Nigeria, 25th- 27th September, 2017.
7. A three-day international conference and workshop on e-schooling and research grant writing held at Wesley University of Science and Technology, Ondo, Ondo State, Nigeria held from 12th to 14th April, 2018.
8. Association of African Universities Workshop on "Quality assurance in journal establishment, management/maintenance and sustainability" – A virtual workshop held in December, 2020.
9. UNIMED/CAR-NARSDA joint workshop on "Harnessing space science and technologies to advance national health" held at the University of Medical Sciences, Ondo City, Ondo State, Nigeria on the 18th May, 2021.
10. African Studies Association Conference (ASA) in Philadelphia, Pennsylvania from Thursday, November 17th, to Sunday, November 20th, 2022.
11. Workshop training on Research Commercialization and Acceleration Programme (RECAP) organised by the Intellectual Properties and Technology Transfer Office



**d) Paper Presentation (Invited Talks)**

1. Building capacity in immunodiagnostic research for NTDs in low-resourced settings – Parasitology and Public Health Society of Nigeria (PPSN), 17th July, 2024.
2. Harnessing nanotech for effective parasitic diseases management – Masinde Muliro University of Science and Technology, Kenya and the Mwele Malecela Mentoring Programme, 27th May, 2024.
3. Securing research funding: what researchers need to know – Directorate of Research and Connectivity, Clifford University, Owerri, Abia State, Nigeria, November 21, 2023
4. Re-engineering of natural and pharmaceutical products for parasites control. School of Pharmacy, Federal University, Ouro Preto, Brazil, 16th March, 2020
5. Basic research in tropical parasitic diseases; my contributions. Instituto René Rachou, Fundação Oswaldo Cruz, Belo Horizonte, Minas Gerais, Brazil, 22nd August, 2019.
6. Basic epidemiological research in schistosomiasis and potential for collaborative research for greater impact. School of Biological Sciences, Essex University, United Kingdom, 20th March, 2019.

**e) Facilitated Workshop**

Facilitator and presenter of the following themes:

- (i) TGROW and SURE mentoring models
- (ii) What constitute good mentor-mentee match. Presented at the Centre of Excellence in Reproductive Health Innovation (CERHI), University of Benin, Benin City, Nigeria, between 13-17 July, 2021.

Facilitator and presenter of the following themes:

- (i) Identifying a mentor and the roles of a mentor
- (ii) Conflict management during mentoring
- (iii) Essentials of grant writing
- (iv) Identifying a good journal. Presented at the Centre of Excellence in Reproductive Health Innovation (CERHI), University of Benin, Benin City, Nigeria, between 13-17 May, 2019.

**f) Facilitated Seminar**

Presenter: Second AREF-Excell Seminar titled “One enemy, many soldiers; a case of parasite and control”. Presented at the Centre of Excellence in Reproductive Health Innovation (CERHI), University of Benin, Benin City, Nigeria, 8 February, 2019.

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**H. Current Research Activities**

- (i) Identification of novel diagnostic protein(s) in trematodes antigens.
- (ii) Synthesis, characterization and therapeutic efficacy of green-synthesized nanoparticles against trematodes and their snail intermediate hosts.
- (iii) Assessment of equity in neglected tropical diseases (NTDs)-mass drug administration (MDA) programming.
- (iv) Efficacy of maternal intermittent malaria preventive treatment during co-infection with schistosomiasis

## I. Current Relevant Information

1. Services within the Department	2021 till date
Roles/Responsibilities (Department):	
(i) Chair – Departmental Research and Development Committee	
(ii) Member – Appointment and Promotion Committee	
2. Services within the Faculty	2020 till date
Roles/Responsibilities (Faculty):	
(i) Chair – Faculty of Science Research and Development Committee	
(ii) Chair – Faculty of Postgraduate Curriculum Committee	2021 till date
(iii) Sub-Dean – Faculty of Sciences, Postgraduate School	2021 till date
3. Services within the University	
Roles/Responsibilities (University):	2023 till date
(i) Director – Central Office for Research and Development (CORD)	
(ii) Deputy Director – Central Office for Research and Development (CORD)	2020 – 2023
(iii) Member – University of Medical Sciences/Teaching Hospital Research Ethics Committee (UNIMED/TH REC)	2018 till date
(iv) Member – Academic Events Committee	2021 till date
(v) Member – University Research Committee	2021 till date
4. Services outside UNIMED	
Editorial responsibilities	
(i) Section Editor of the Annals of Science and Technology; The Official Journal of the Nigerian Young Academy	2020 - 2024
(ii) Peer-Reviewed Articles for:	
• Plos Neglected Tropical Diseases (Plos)	
• Plos One (Plos)	
• Pathogen and Global Health (Taylor & Francis)	
• Scientific Reports (Nature Research)	
• Environmental Advances (Elsevier)	
• Acta Tropica	
• Asia Journal of Urology (Elsevier)	
• BMC Research Note (Springer)	
• BMC Infectious Diseases of Poverty (Springer)	
• Journal of Parasitology Research (Hindawi)	
• BMC Complementary and Alternative Medicine (Springer)	
• Journal of Preventive Medicine and Hygiene (JPMH)	
• International Journal of Nanomedicine (Dove Press)	
• Journal of Immunology (The American Association of Immunologists, Inc.)	
(iii) Guest Editor – Frontiers in Tropical Diseases	
(iv) Guest Editor – Tropical Medicine and Infectious Disease	
Consultancy Services	
(i) Client – African Population and Health Research Centre (APHRC), Nairobi, Kenya – Project title – Assessment of equity in neglected tropical diseases (NTDs) – mass drug administration programming in Sub-Saharan Africa.	

- (ii) Client – Deloitte, Nigeria  
Project title - Economic Impact Study on the Elimination of the Five Most Common NTDs in Nigeria.
- (iii) Client – Africa Research Excellence Fund (AREF) – Engagement to facilitate the organization's capacity building programmes for African early career scientists.

## **J. Contribution to Knowledge**

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My research activities are primarily focused on epidemiology and control of transmission of parasitic diseases. I devote my time to identifying public health issues posed by parasitic diseases and seek on ways to abate them. I am using diverse approaches such as epidemiology and spatial epidemiology, immunology, and molecular biology to answer pertinent research questions to facilitate control of parasitic diseases.

My early works focused on the burden of schistosomiasis on pregnant women and preschoolers; the often-neglected groups in schistosomiasis mass drug administration (MDA) – implementation programs. The studies recommended and advocated for policy review for the inclusion of pregnant women in second and third trimesters and preschoolers in control programs. The additional and detrimental burden posed by tropical parasitic diseases, especially during concurrent infections with other infectious agents such as HIV, hepatitis B virus, and enteroviruses, has stimulated my interest in co-infection studies. I have been able to establish that schistosomiasis increased the risk of malaria and hepatitis B virus while other studies have predicted that the burden of certain parasites with adhesive organs such *Taenia* spp. increased in individuals infected with enteroviruses. Importantly, it was established that schistosomiasis infection in areas endemic to malaria could have implication in the diagnosis of malaria and control of the same. A new dimension to the co-infection studies currently being explored is the impact of schistosomiasis on the efficacy of intermittent preventive treatment in pregnant women. This study was informed by some incidence of malaria resistance to treatment in pregnant women and is yet to be identified as responsible mechanisms. I have explored the epidemiology of many other parasitic diseases including; lymphatic filariasis, soil-transmitted helminths, trichomoniasis, toxoplasmosis, and cryptosporidiosis.

To understand the epidemiology of schistosomiasis, the species composition of freshwater snails from river bodies from endemic communities was studied. For the first time in Nigeria, some exotic freshwater planorbid snails with the potential to transmit schistosomes were reported. Plans are underway to develop transgenic snails for control of schistosomiasis. My studies on interactions between snail hosts of schistosome suggested the possibility of depleting the biological control approach of schistosomiasis in Africa.

With the continuous transmission of malaria and other tropical diseases in Africa and the development of resistance by causal agents of these diseases to mainstay drugs, I developed an interest in finding rational solutions to the spread of these diseases. As a result, I have also been involved in some drug discovery projects. I developed capacity in this line of research during my first postdoctoral training at the Institute of Immunology, New Delhi, India. These efforts have produced amazing results as I have been able to synthesize some novel nanomedicines with great potential against malaria parasites, schistosomes, and *Fasciola* sp. To further harness our rich flora, I have further developed a novel approach to formulate nanodrugs from plant products and I have used the same against trematode parasites and their snail intermediate hosts. These efforts produced better results than most of the mainstay drugs currently under use. I am currently exploring the diagnostic potential of proteins from *Schistosoma* and *Fasciola* parasites with the aim of developing a cost-effective diagnostic kit. Importantly, I am leveraging the use of cross-reacting proteins in different trematode helminths to develop a multiplex diagnostic. The latter approach will be cost-effective and very suitable in African settings where these parasites often co-exist. I have facilitated

the establishment of an immunodiagnostic center for tropical parasites to this effect and I am currently training next-generation scientists in the field.

**Date: 28 August 2024**