

CURRICULUM VITAE

1. PERSONAL

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| (i) Name | IDOWU, Oluwafunmilayo Ajoke |
| (ii) Date of Birth | January 21, 1970 |
| (iii) Place of Birth | Lagos, Nigeria |
| (iv) Age | 49 years |
| (v) Sex | Female |
| (vi) Marital Status | Married |
| (vii) Nationality | Nigerian |
| (viii) Town and State of Origin | Osogbo, Osun |
| (ix) Contact Address | Department of Pure and Applied
Zoology,
Federal University of Agriculture, PMB
2240, Abeokuta, Ogun State. |
| (x) Phone Number | +234-08033349340 |
| (xi) E-mail Address | tomiwo2@gmail.com |
| (xii) Present Post and Salary | Professor |

2. EDUCATIONAL BACKGROUND

(i) **Educational Institutions attended with dates**

University of Agriculture, Abeokuta	2000 – 2006
University of Lagos, Lagos	1992 – 1994
University of Ibadan, Ibadan	1987 – 1991
Ilogbo High School, Ebute-Metta	1981– 1986

(ii) **Academic and Professional Qualifications with dates**

Ph.D. Parasitology	March, 2006
M.Sc Medical Parasitology (Distinction)	March, 1994
B.Sc (Hons.) Zoology	July, 1991
West African 'O Level School Cert.	June, 1986

(iii) **Prizes, Honours, National and International recognition with dates**

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| (a) Best M.Sc. Medical Parasitology Student | 1994 |
| (b) Scholarship Award to present at the Centenary
Conference of the Royal Society for Tropical
Medicine and Hygiene. | 2007 |
| (c) Scholarship Award to attend 2 nd International
Course in Clinical Tropical Medicine in Vellore,
India. | 2008 |
| (d) Grants: A complete set of QBC and Haemoanalyser Equipment granted by the QBC
diagnostics, Philipsburg, USA as Malaria Research Support. (2008). | |

3a. WORK EXPERIENCE

Professor

Federal University of Agriculture, Abeokuta 2015 to date

Reader

Federal University of Agriculture, Abeokuta 2012 – 2015

Senior Lecturer

Federal University of Agriculture, Abeokuta 2008 – 2012.

Lecturer I

Federal University of Agriculture, Abeokuta 2005 – 2008

Lecturer II

Federal University of Agriculture, Abeokuta 2001 – 2005

Assistant Lecturer

Federal University of Agriculture, Abeokuta 2000 – 2001

Master Grade1 Tutor

Ogun State Teaching Service Commission 1999 – 2000

DFRRI Monitoring Officer

Kaduna State Government (NYSC) 1991– 1992

3b. Courses Taught At The University Of Agriculture, Abeokuta

COURSES	CODE	UNITS	PERIOD
Practical Biology 1	BIO 191	1 unit	2000 to date
Practical Biology II	BIO 192	1 unit	2000 to date
Introductory Physiology I	BIO 103	2 units	2000 to 2010
Introductory Zoololgy	BIO 102	2 units	2000 to date
Practical Biology II	BIO 192	1 unit	2000 to date
General Physiology	BIO 206	2 units	2005 to 2006
Invertebrate Zoology	ZOO 261	3 units	2004 to date
Biological Techniques	BIO 303	2 units	2004 to 2005
Field Course	BIO 302	2 units	2005 to date
Evolution of Chordates	ZOO 365	2 units	2000 to date
Embryology	ZOO 368	3 units	2008 to date
Nematology	ZOO 370	3 units	2005 to date
Parasitology I	ZOO 363	3 units	2000 to date
Parasitology II	ZOO 463	3 units	2000 to date
Animal Behaviour	ZOO 466	2 units	2001 to date
Supervision of Undergraduate Seminars	ZOO 497	2units	2000 to date
Supervision of B.Sc Projects	ZOO 499	6units	2000 to date
Diseases Caused by Protozoans	ZOO 703	3units	2005 to date
Diseases Caused by Helminthes	ZOO 705	3units	2005 to date
Supervision of M.Sc Seminars	BIO701	2units	2005 to date
Supervision of M.Sc Projects	BIO799	6units	2005 to date

Project Supervision:

(i) **Undergraduate:** 85 students to date

4. SPECIAL ASSIGNMENTS/COMMUNITY SERVICE.

(4a) University Assignments

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| (i) | Member , COLNAS College of Board | 2000 to 2014 |
| (ii) | Member , COLBIOS College Board | 2014 to date |
| (iii) | Secretary , Department of Biological Sciences Board | 2005 to 2009 |
| (iv) | Voluntary Councillor , USG/Nigeria Partner for HIV and AIDS Relief-UNAAB Chapter | 2005 to date |
| (v) | COLNAS Representative to COLVET Board. | 2005 to 2008 |
| (vi) | 200 Level Coordinator , Department of Biological Sciences | 2006/2007 |
| (vii) | Member , Ad-hoc Committee on Privatization of COLNAS Canteen Services | March, 2007 |
| (viii) | COLNAS Representative to COLANIM Board. | 2008 to 2010 |
| (ix) | Facilitator , Training on Best Practices in Biomedical Research | May 2008 |
| (x) | COLNAS Representative to ACADA Challenge Committee. | June/July 2008 |
| (xi) | Member , Accommodation and Transport Committee of the 3 rd Conference on Science and Development. | 2008 |
| (xii) | Departmental Representative to COLNAS College Board of Studies | 2008 |
| (xiii) | Member College Committee on Examinations and Results (COLNAS COCER). | 2010 to 2011 |
| (xiv) | Member Ogun State Technical Committee on Malaria Control. | 2011 to date. |
| (xv) | Chairman , First Poster Competition for Final Year Biology Students | June, 2013 |
| (xvi) | Member Independent Corrupt Practices and Other Related Offences Commission (ICPC)- Anti-Corruption and Transparency Monitoring (FUNAAB) | 2013 to date |
| (xvii) | COLNAS Representative to Community Based Farming Scheme (COBFAS) Committee | 2014 |
| (xviii) | Acting Head of Department (Biological Sciences) | March –April, 2014 |
| (xix) | COLBIOS Representative on Community Based Farming Scheme Board (COBFAS) Committee | 2015 |
| (xx) | Coordinator - Departmental SIWES | 2014 to date |
| (xxi) | Acting Head of Department (Biological Sciences) | March –April, 2014 |
| (xxii) | Acting Head of Department (Pure and Applied Zoology) | February & June 2014 |
| (xxiii) | Staff Adviser to PAZ Student Association, FUNAAB | May 2015 till date |

4b. COLNAS Leadership Lecture Series

Presented a paper titled “The Thief and its Accomplice: Man’s Unending Struggle Against Malaria Parasite” at the 14th College of Natural Sciences’ Leadership Lecture on the 23rd July 2014.

4c. Community Services

- (i) Guest Lecture Presented on the 2011 World Malaria Day Symposium titled “ Prevention of Malaria in Pregnancy” Organised by the Ogun State Ministry of Health and Support for National Malaria Programme(SuNMaP). May, 2011.
- (ii) Member, Ogun State Malaria Control Technical Working Group(TWG), Inaugurated in January 2011.

(iii) University of Agriculture Malaria Control Activities:

- a. **Acquisition** of Long Lasting Insecticide Treated Net for hostel students November 2010.
 - b. **Awareness** lecture to UNAAB hostel students on malaria prevention strategies titled “Mosquitoes and Malaria” January 2011 at the male and female hostel common rooms.
 - c. **Acquisition** of Long- Lasting Insecticide Treated Nets (LLIN) For UNAAB Students on Community Based Farming Scheme (June 2011).
 - d. **Awareness** lecture to UNAAB Students on Community Based Farming Scheme at Ishaga Orile (June 2011)
- (iv) Guest Lecture Presented on the 2010 World Malaria Day Symposium titled “ Counting Malaria Out of Pregnancy). Organised by the Ogun State Primary Health Care Development Board (OGPHECADEB) and Support for National Malaria Programme (SUNMAP). 27th, April 2010.
- (v) Worked with a team for the Finalization of Programme Management Capacity Building Training Modules for National malaria Control Programme (NMCP)(2011)
- (vi) Provision of technical assistance to the Ministry of health and Malaria control programmes in Ogun, Niger, Lagos and Akwa Ibom States to organize State level training of facilitators (SToT) that produced a core team of State based programme management facilitators (2011-2013).
- (vii) Lead a team to Support the roll out of programme management modules at State level and in designated Local government areas of the Ogun State(2012).
- (viii) Health talks and gift donation to women in Boodo, Ogijan, Ijemo-Fadipe, Ilewo-Orile, Ajana and Odo-erin communities (2004).
- (ix) Health talks to women receiving antenatal care in a traditional birth home in Abeokuta (2001-2003).

5. TRAINING PROGRAMMES ATTENDED

- (i) A 2 day training on Statistics and Data Analysis Organized by Health Development Guild Nigeria held at 3Js Hotel, Abuja between 16th and 17th November, 2014.
- (ii) A 2 Day Step-Down Capacity Building Training on “Work-Based Learning, Job Analysis and Career Placement” organized by SIWES Directorate FUNAAB held at International Scholars Centre between 7th and 8th July, 2014.
- (iii) Membership training of the Health Development Guild-Nigeria (HDgN). Organized by Treeshade Associates. Four Contacts between February and November 2014 in Makurdi and Abuja.
- (ii) Workshop on Statistical Analysis and Data Management; Organized by FUNAAB Consults (FUCONS) held at FUNAAB International Scholars Centre between 10th and 12th April, 2013.
- (iii) Workshop on Integrated Disease Surveillance and Response (IDSR) in West Africa, Organised by the Nigerian Academy of Science, held at the Sheraton Hotel and Towers, Abuja, Nigeria, 3rd and 4th August 2010.
- (iv) First West African Regional Cell Biology Workshop, Organised by the The American Society for Cell Biology, held at the University of Ghana. 13th-24 July, 2009.
- (v) 12th Summer Course in Practical Biotechnology, organized by UNAAB Biotechnology

Centre supported by World Bank Project for Science and Technology Education Post Basic, Abeokuta, Nigeria. 5th-11th July, 2009.

- (vi) Workshop on Ethical Issues in the Control of Malaria and HIV/AIDS in Africa organized by the Parasitology and Public Health Society of Nigeria(PPSN) South West Zone, Lagos, June 23-25, 2009.
- (vii) Second International Short Course in Clinical Tropical Medicine Organised by Infectious Diseases Training Research Centre- CMC, Vellore, India Jan. 21- Feb. 2 2008.
- (viii) USG/ NIGERIA Partnership for HIV and AIDS Relief (PEPFAR) UNAAB 2005. HIV/AIDS Voluntary Counseling and Testing Counselor).

5b. Conferences, Workshops and Trainings Attended.

International Conferences attended with dates

- (i) Biomed Central Conference themed “Challenges in Malaria Research” organized by the Malaria Journal held between 22nd and 24th September, 2014
- (ii) World Society for Pediatric Infectious Diseases Conference, Held at Cape Town Conference Centre, Cape Town, South Africa. November 19- 22 November, 2013.
- (iii) Gordon Research Conference on Tropical Infectious Diseases. Held at Galveston Hotel Texas, United State of America between 10th -15th February, 2013.
- (iv) Public Health Conference on Health and Wellbeing (organized by the Royal Society for Public Health) held at Friends House, 173-177 Euston Road, London, NW1 2BJ between 8th and 9th September 2011.
- (v) Autumn Symposium of the British Society for Parasitology held at the Wolfson Research Institute, Durham University, United Kingdom. 23-24 September,2010.
- (vi) Biennial Meeting of the Royal Society of Tropical Medicine and Hygiene held at Liverpool University, Liverpool, United Kingdom. 8-10 September, 2010.
- (vii) International Health and Tropical Medicine Conference (The Annual Meeting of the Royal Society of Tropical Medicine and Hygiene, 17th-19th September, 2008, Brighton, UK.
- (viii) 1st African Health Research Organisation(AHRO)International Malaria Symposium held at Ghana; August 12-13, 2008.
- (ix) Centenary conference of the Royal Society of Tropical Medicine and Hygiene held at Queen Elizabeth II Conference Centre, London, UK; September 13-15, 2007.
- (x) 2nd International Conference of the Journal of Travel Medicine and Infectious Disease held at Church House, Dean’s Yard, Westminster, London, UK; September 12, 2007.

Local Conferences attended with dates

- (i) Malaria Conference themed “Building Holistic Efforts Towards Control of Malaria” (Organized by Medicare Nigeria) held at Covenant University Ota, Ogun State, Nigeria between 27th and 28th July, 2011.
- (ii) 33rd Annual Conference of the Parasitology and Public Health Society of Nigeria held at Usman Danfodiyo University, Sokoto. Nov. 17- 20, 2009.
- (iii) Annual Seminar of the Malaria Society of Nigeria (MSN) 2008 Themed: Stemming Malaria Burden in Nigeria Through Strategic Actions in Research Policy. Held at the

- (iv) Nigerian Institute of Medical Research(NIMR) Yaba, Lagos on the 30th October, 2008.
- (v) 2nd International Conference on Science and National Development held at University of Agriculture, Abeokuta; 25th – 28th October, 2006.
- (vi) The 29th Conference of the Nigeria Society for Parasitology held at University of Agriculture, Abeokuta; September 21-24, 2005.
- (vii) 1st International Conference on Science and National Development held at University of Agriculture, Abeokuta; 25th – 28th October, 2004.
- (viii) 27th Annual Conference of the Nigerian Society for Parasitology held at the National Institute for Medical Research, Yaba, Lagos. September; 24-27, 2003.

6. COMMENDATION

- (i) Commendation on Acquisition of free Long Lasting Insecticide Nets(LLIN) for University of Agriculture Hostel Students and Students on Community Based Farming Scheme in rural communities (2011).
- (ii) Commendation by the Dean for diligence, intuitiveness and commitment to the development of the College (2010)
- (iii) Commendation letter from the Vice-Chancellor for organizing training on best practices in basic biomedical research for final year and post graduate students in University of Agriculture, Abeokuta, 2008.

7. MEMBERSHIP OF PROFESSIONAL BODIES.

- (i) Parasitology and Public Health Society of Nigeria.
- (ii) Zoological Society of Nigeria
- (iii) Fellow of the Royal Society of Tropical Medicine and Hygiene
- (iv) American Society for Cell Biology.
- (v) Malaria Society of Nigeria
- (vi) Health Development Guild Nigeria (HDgN)

8. RESEARCH INTERES:

(a) Research Completed

S/N Research Title

i	Malaria Parasite Infection in different HIV Serotypes in Abeokuta	2015
ii	Occurrence of Placental and Congenital Malaria in Newborns in Abeokuta	2014
iii	Biochemical and Haematological Impacts of Malaria and HIV Infections among Pregnant Women in Abeokuta	2013
iv	Malaria Prevention Among Children Under Five Years In A Rural Community in Nigeria	2012
v	The Use Of Insecticide Treated Nets and The Effect Of Intermittent Preventive Treatment In Malaria Control Among Pregnant Women In (Olugbo) Odeda Local Government Area Of Ogun State.	2012

(b) Research in Progress

- i. Surveillance for *Plasmodium falciparum* Drug Resistant Strains in Human population.
- ii. Occurrence of Placental and Congenital Malaria in mice.
- iii. Studies on abortifacient properties of antimalarial herbs
- iv. Assessment of the Effectiveness of Insecticidal paints in the control of malaria in Nigeria
- v. Studies on Nosocomia Malaria in Selected Hospitals in Abeokuta

9. PUBLICATIONS.

(a) Thesis/Dissertation

- (i) Prevalence, Home and Clinical Management of Malaria Infection among Pregnant Women in Abeokuta, Nigeria (Ph.D Thesis, University of Agriculture, Abeokuta 2006)
- (ii) Multiplication, morphology and viability of axenically cultivated *Trypanosoma vivax* in ME 99 and Minimum essential medium (MEM) (M.Sc Thesis, University of Lagos, Lagos 1994)
- (iii) Studies on the helminth fauna and food contents of the gastrointestinal tract of *Agama agama* in Ibadan (B.Sc Project, University of Ibadan, Ibadan 1991)

(9b) Journal Articles in Prints

- (1) † Idowu, A. B. and **Idowu, O. A.** (1999). Pharmacological properties of the repellent secretion of *Zonocerus variegatus* (Orthoptera; Pyrgomorphidae) **Rev. Biol. Trop.** 47(4): 1015 – 1020(COSTA RICA) Published by University Costa Rica Available online at <http://www.ots.ac.cr/tropiweb/intpages/home.html>
- (2) **Idowu, O.A.**, Idowu, A.B., Mafiana, C.F. and Sam-Wobo, S.O. (2000) Multiplication and viability of axenically cultivated *Trypanosoma vivax* in vitro and in vivo. **Bioscience Research Communications.** 12(4): 395-400. Published by Klobex. Available online at <http://www.klobex.org/page8.html>
- (3) † Idowu, A. B. and **Idowu O.A.** (2001). Effect of food plants in the volume of repellent Secretions obtained in adult *Zonocerus variegatus* (L). (Orthoptera; Pyrgomorphidea) **Rev. Biol. Trop.** 49(2): 679- 684(COSTA RICA) Published by University of Costa Rica Available online at <http://www.ots.ac.cr/tropiweb/intpages/home.html>
- (4) † **Idowu, O.A.**, C.F. Mafiana and Sotiloye Dapo (2003) Rhesus Negative pregnant women in a traditional Birth home in Abeokuta, Nigeria **African Journal of Biotechnology** 2(8): 241-243 (KENYA). Published by Academic Journals. Available online at <http://www.academicjournals.org/AJB/About.htm>
- (5) **Idowu, O.A.**, C.F. Mafiana, Adu, O.O. and Sotiloye Dapo (2005). Occurrence of Plasmodium and Intestinal Helminth infection among anaemic pregnant women in Abeokuta. **The Zoologist** 3: 40-454. Published by Zoological Society of Nigeria. Available on line at <http://trove.nla.gov.au/work/30227709?selectedversion=NBD26848634>
- (6). † **Idowu, O.A.**, C.F. Mafiana and Sotiloye Dapo (2005) A survey of anaemia among pregnant women in Abeokuta, Nigeria. **African Health Sciences** 5(4):295-299 (UGANDA). Published by the Faculty of Medicine, Makerere University. Available online at <http://www.bioline.org.br/hs>
- (7) † **Idowu, O.A.**, C.F. Mafiana, and Sotiloye Dapo (2006) Malaria among pregnant women in Abeokuta, Nigeria. **Tanzania Journal of Health Research** 8(1):28-30 (TANZANIA). Published by Health User's Trust Fund (HRUTF) ISSN: 1821-6404. Available online at <http://www.bioline.org.br/th>

- (8). † **Idowu O.A.**, Apalara S.B and Lasisi A.A (2006) Malaria Control: Assessment of quality of Chloroquine tablets sold by drug vendors in Abeokuta, Nigeria. *Tanzania Journal of Health Research* 8(1):45-46 (TANZANIA). Published by Health User's Trust Fund (HRUTF) ISSN: 1821-6404. Available online at <http://www.bioline.org.br/th>
- (9) † **Idowu, O.A.**, and Rowland S.A. (2006) Prevalence of Orally Faecal Parasites and personal hygiene of food handlers in Abeokuta. *African Health Sciences* 6(3):160-N 164(UGANDA). Published by the Faculty of Medicine, Makerere University. Available online at <http://www.bioline.org.br/hs>.
- (10) Sam-Wobo, S. O., Oyeyemi, O. A., **Idowu, O. A.** and Afolarin, A. (2006) Assessment of health knowledge and risk factors associated with intestinal helminths in tertiary schools in Abeokuta, Nigeria. *The Nigerian Journal of Parasitology* 27:76-80. Published by the Parasitology and Public Health Society of Nigeria ISSN: 1117-4145. Available online at <http://www.ajol.info/index.php/njpar>.
- (11) **Idowu, O.A.** and Mafiana, C.F.(2007) Malaria in Pregnancy: Knowledge, Attitude and Practices of Pregnant Women in Abeokuta, Nigeria. *The Nigerian Journal of Parasitology* 28(2):61-64. Published by the Parasitology and Public Health Society of Nigeria ISSN: 1117-4145. Available online at <http://www.ajol.info/index.php/njpar>.
- (12) **Idowu O.A.**, Sam-Wobo S.O and Olorode, N.O (2007) Fascioliasis: Prevalence, protein content and attitude of meat sellers to infected livers of slaughtered cattle in Abeokuta. . *The Nigerian Journal of Parasitology* 28(2):125-128. Published by the Parasitology and Public Health Society of Nigeria ISSN: 1117-4145. Available online at <http://www.ajol.info/index.php/njpar>.
- (13) † **Idowu, O.A.** and Mafiana C.F. I.J. Luwoye and O. Adehanloye (2008). Perceptions and home management practices of malaria in some rural communities in Abeokuta, Nigeria. *Travel medicine and Infectious Disease* 6: 210-214(UNITED KINGDOM). Published by Elsevier for International Society for Infectious Diseases Available online at <http://www.sciencedirect.com/science/journal/14778939>
- (14) † **Idowu O.A.**, Mafiana C.F and Sotiloye Dapo (2008). Traditional birth home attendance and its implications for malaria control during pregnancy in Abeokuta, Nigeria. *Transactions of the Royal Society of Tropical Medicine and Hygiene* 102:679-684 (UNITED KINGDOM). Published by the Elsevier for the Royal Society of Tropical Medicine and Hygiene (RSTMH). Available online at <http://www.sciencedirect.com/science/journal/00>
- (15) Sam-Wobo, S.O., Mafiana, C. F., Agwuegbo, S., Adebajji, A. O., Agbeyangi, O and **Idowu, O. A.** (2008). Incidence of Ascariasis infection among primary school children in Ogun State, Nigeria: A Generalized Linear Model Approach *The Nigerian Journal of Parasitology* 29 (1): 32-37. Published by the Parasitology and Public Health Society of Nigeria ISSN: 1117-4145. Available online at <http://www.ajol.info/index.php/njpar>.
- (16) † **Oluwole, A.S.**, Ekpo, U.F., Mafiana, C.F., Adeofun, C.O., **Idowu, O.A.**(2009). Preliminary Study on Temporal Variations in Biting Activity of *Simulium damnosum s.l.* in Abeokuta

North LGA, Ogun State Nigeria. *Parasites and Vectors* 2:55. Published by Biomed Central (UNITED KINGDOM). Available online at <http://www.parasitesandvectors.com/>

- (17) **Idowu, O.A.**, Jimoh, W; Obe V.O (2009). Transfusion malaria: Infectivity and Multiplication of *Plasmodium berghei* stored at 4°C for various time intervals. *International Journal of Malaria and Tropical Diseases* 5: 99-103. Published by the Malaria Society of Nigeria. ISSN: 1596-3381. Available online at <http://www.ajol.info/index.php/ijmtd/index>
- (18) † Adeleke, M.A., Mafiana, C.F., Idowu, A.B., Sam-Wobo, S.O., **Idowu, O.A** (2010). Population Dynamics of Indoor Sampled Mosquitoes and their Implication in Disease Transmission in Abeokuta, South-Western Nigeria. *Journal of Vector Borne Diseases* 47: 33-38(INDIA). Published by Indian Council Of Medical Research (ICMR). Available online at <http://www.mrcindia.org/journal/>
- (19) **Idowu, O.A.**, Ajana O.O., Soniran, S.T ,and Aworinde, D.O.(2010). Ethnobotanical Survey of Antimalarial Plants Used in Ogun state Southwest-Nigeria. *African Journal of Pharmacy and Pharmacology* 4(2): 55-60. Published by Academic Journals. Available online at <http://www.academicjournals.org/ajpp/About.htm>
- (20) Olukunle, J.O, Abatan, M.O., Soniran, O.T., Takeet, M .I., **Idowu, O.A.**, Akande, F.A., Biobaku, K.T. and Jacobs, E.B.(2010). In-vivo Antitrypanosomal Evaluation of Some Medicinal Plant Extracts from Ogun State, Nigeria. *Science World Journal* 5(1): 17-19. Published by Faculty of Science, Kaduna State University. Available online at <http://www.scienceworldjournal.org/issue/archive>.
- (21) Sam-Wobo, S.O, Igenezoa, A. J, **Idowu, O.A**, Otesile, E.B, Ekpo U.F.and Kehinde O.O.(2010). Bovine trypanosomosis and its impact on cattle in derived savanna areas of Ogun State, Nigeria. *Journal of Public Health and Epidemiology* 1(3): 43-47. Published by academic Journals. Available online at <http://www.academicjournals.org/JPHE/index.htm>.
- (22) Sam-Wobo S.O, Amusa A.A, **Idowu O.A** and Mafiana C.F(2010). Assessment of HIV and Malaria Infections and Perception among Antenatal Women in Ogun State, Nigeria. *Journal of Natural Sciences. Engineering and Technology*, 9(1):115-123(Formerly ASSET:An International Journal). Published by University of Agriculture, Abeokuta. Available online at <http://www.unaab.edu.ng/asset/>
- (23) † **Idowu, O.A.**, Sam-Wobo S.O., Oluwole A., Adediran A. S (2011). Awareness, Possession and Use of Insecticide Treated Net for Prevention of malaria in Children Under-five in Abeokuta, Nigeria. *Journal of Paediatrics and Child Health* 47:117-121 (AUSTRALIA). Published by Wiley-Blackwell for the Royal Australasian College of Physicians. Available online at [http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1440-1754](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1440-1754)
- (24) † **Idowu, O.A.** and Babatunde, O.O (2011). Parasitic infections in Finger- sucking school age children. *The Pediatric Infectious Disease Journal* 30 (9): 791-2. (USA). Published by

Lippincott Williams & Wilkins for the Pediatrics Infectious Diseases Society and European Society for Pediatrics Infectious Diseases. Available online at <http://journals.lww.com/pidj/pages/default.aspx> .

- (25) **Idowu, O.A.** Adeleke M.A; Junaid O.Q; Funmilayo O.J (2011). Effectiveness of Window Nets of Different Mesh Sizes In The Prevention of Mosquito-Human Contact: Implication for Malaria Control. *International Journal of Malaria and Tropical Diseases*. Vol. 6: 220-224 Published by the Malaria Society of Nigeria. ISSN:1596-3381. Available online at <http://www.ajol.info/index.php/ijmtd/index>
- (26) Soniran, O.T, **Idowu, O.A.**, Idowu, A.B and Ajana O.O (2011). Evaluation of *in vivo* antiplasmodial activities of extracts of *Morinda morindiodes* (Bak.) in the treatment of malaria. *International Journal of Biomedical and Health Sciences*. Vol.7(4), 299-306. Published by Department of Biochemistry, University of Ilorin. Available online at <http://www.klobex.org/ijbhs.htm>
- (27) † Soniran, O.T, **Idowu, O.A.**, Ajayi, O. L and Olubi I. C.(2012): Comparative Study on the Effects of Chloroquine and Artesunate on Histopathological Damages Caused by *Plasmodium berghei* in Four Vital Organs of Infected Albino Mice. *Malaria Research and Treatment* Vol 2012 (2012), Article ID 960758, 7 pages doi:10.1155/2012/960758. Published by Hindawi Publishing Corporation. Available online at <http://www.hindawi.com/journal>
- (28) Sam-Wobo, S. O., Asiwaju, R., **Idowu, O. A.**, Eromosele, C. O.and Adeleke, M. A (2012). Communal Evaluation of Intestinal Helminthes in some Guineaworm-Controlled Communities in Ogun State, Nigeria. *Journal of Entomology and Nematology* Vol. 4(2),7-11.DOI:10.5897/JEN11.01Availableonlineat <http://www.academicjournals.org/jen>
- (29) †**Idowu O.A.**, Adeleke M.A and Aina T.M (2012): Evaluation of Indoor Breeding Activities of Mosquitoes During the Dry Season in Abeokuta, Southwest Nigeria. *Journal of Environmental Health Research* 12(1): 25-29.Published by the Chartered Institute of Environmental Health(UK) Available online at <http://www.cieh.org/jehr/>
- (30) Soniran O.T **Idowu O.A.**; Kalu K.M; Ngele K.K.1; Ogundapo S.S.1; Ozougwu J.C; Egwua (2012). Comparative Study on the Effect of Intestinal Parasites of Two Land Snails on their Nutritional Composition. *Scientia Journal* Vol.1:94-98
- (31) Abe, EM. Oluwole, AS. Ojo DA, **Idowu, OA.**, Mafiana, CF., Braide, EI. Ekpo, UF. (2012) Predicting the geospatial distribution of *Bulinus* snail vector of urinary schistosomiasis in Abeokuta, South western Nigeria. *The Zoologist*, 10:53-60 (2012)
- (32) † **Idowu, O.A** (2014) Effect of Environmental Hygiene and Water Storage on the Prevalence of Malaria among Pregnant Women in Abeokuta, Nigeria. *Health: Scientific Research Journal*. *Health*, 6, 90-93.doi: 10.4236/health.2014.61014. Published by Scientific Research Publishing Inc.(SCIRP) Delaware, USA. Available online at <http://www.scirp.org/>

- (33)† **Idowu O.A.**, Adeleke M. A and Oriaku E.C (2014). Assessment of Natural and Artificial Breeding sites of Mosquitoes in Rural and Urban Areas of Abeokuta, Ogun State, Nigeria. *Munis Journal of Entomology and Zoology*, 9(2): 832-837) Published by Gazi University, Turkey. Available online at <http://www.munisentzool.org/>
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Journal Articles Accepted for Publication

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- (i) **Idowu, O.A.**, C.F. Mafiana and Sotiloye Dapo (2004) A survey of anaemia among pregnant women in Abeokuta, Nigeria. *Proceedings of the 1st International Conference on Science and National Development*, October 25-28 : 19-25. College of Natural Sciences, UNAAB
- (ii) Soniran O Temidayo*, **Idowu Olufunmilayo**, Idowu A Babatunde, Ajana Olusegun Evaluation of in vivo Antiplasmodial Activities of extracts of *Morinda morindiodes* (Bak.) in the treatment of malaria in Ogun State. *Proceeding of Parasite to Prevention: Advances in the understanding of malaria* Edinburgh, UK. 20-22 October 2010 Published by Malaria Journal 2010, 9(Suppl 2):P51 <http://www.malariajournal.com/content/9/S2/P51>.

Articles Submitted For Publication.

- i. Babalola A.S., **Idowu, O.A.**, Sam-Wobo S.O and Fabusoro E . The Usefulness of Pregnancy Associated Malaria Preventive measures on perinatal infection and outcome
- ii. Adekoya, V.O., **Idowu, O.A**; Ademolu, K.O. and Akinloye, O.A. Enzymatic Activities in Malaria Parasite and HIV Infections among Pregnant Women in Abeokuta, Ogun State, Nigeria.
- iii. Adekoya, V.O., **Idowu, O.A**; Ademolu, K.O. and Akinloye, O.A. Malaria Parasite Infections Among Ante-Natal Women Of Different Hiv Status In Abeokuta, Nigeria.

10 MAJOR CONFERENCES ATTENDED WITH PAPERS READ

- (i) **Idowu, O.A.**, Adekoya, V.O., Ademolu, K.O and Akinloye O.A (2014). Enzymatic Activities in Malaria Parasite and HIV Infections among Pregnant Women in Abeokuta, Nigeria. *Biomed Central Conference themed "Challenges in Malaria Research"* organized by the Malaria Journal held between 22nd and 24th September, 2014
- (ii) **Idowu, O.A.**, Ogundeyi Samuel, Sam-Wobo S.O and Fabusoro E.(2014)., Impact of Enlightenment and Monitoring on the Use of Long Lasting Insecticide Nets For Malaria Prevention among Children Under Five Years in a Rural Community in Nigeria. *Gordon Research Conference on Tropical Infectious Diseases*. Held at Galveston Hotel Texas, United State of America between 10th -15th February, 2013.
- (iii) **Idowu, O.A.** and Babatunde, O.O (2013) Parasitic infections in Finger- sucking school age children. *World Society for Pediatric Infectious Diseases Conference*, Held at Cape Town Conference Centre, Cape Town, South Africa. November 19- 22 November, 2013.
- (iv) Soniran O.T, **Idowu O.A** (2013) A Comparative study on the effect of intestinal parasites of two land snails on their nutritional Composition. Presented at the 2nd *International Conference on Giant Snail*. 2-5 June, 2013.

- (v) **Idowu, O.A.**, Ogundeyi Samuel, Sam-Wobo S.O and Fabusoro E.(2011)., Impact of Enlightenment and Monitoring on the Use of Long Lasting Insecticide Nets For Malaria Prevention among Children Under Five Years in a Rural Community in Nigeria. **Public Health Conference on Health and Wellbeing** (organized by the Royal Society for Public Health) held at Friends House, 173-177 Euston Road, London, NW1 2BJ between 8th and 9th September 2011.
- (vi) Sam-Wobo, S.O, Igenezoa, A. J, **Idowu, O.A**, Otesile, E.B, Ekpo U.F.and Kehinde O.O.(2010). Bovine trypanosomosis and its impact on cattle in derived savanna areas of Ogun State. Presented at the 33rd Annual Conference of the Parasitology and Public Health Society of Nigeria held at Usman danfodiyo University, Sokoto. Nov. 17- 20, 2009.
- (vii) **Idowu O.A**, Mafiana C.F (2007) Perceptions and home management practices of malaria in some rural communities in Abeokuta, Nigeria. Presented at the 2nd **International Conference of the Journal of Travel Medicine and Infectious Disease**. September 12, 2007, London, United Kingdom.
- (viii) **Idowu O.A**, Mafiana C.F and Sotiloye Dapo (2007). Traditional birth home attendance and its implication for malaria control during pregnancy in Nigeria. Presented at the Centenary conference of the **Royal Society of Tropical Medicine and Hygiene**, September 13-15, 2007 London United Kingdom.

(11) POSTGRADUATE STUDENTS SUPERVISION

Name of Student	Title of Thesis	Date of Commencement	Programme/ Status/ Expected date of completion	Level of Supervision
Soniran O.T	Evaluation of <i>in vivo</i> antiplasmodial activities of extracts of <i>Morinda morindiodes</i> (Bak.) in the treatment of malaria.	2005	M.sc Completed	Major
Ogundeyi Samuel	Impact Of Enlightenment And Monitoring On The Use Of Long Lasting Insecticide Nets For Malaria Prevention Among Children Under Five Years In A Rural Community in Nigeria	2008	M.Sc Completed	Major
Ogunsola, O.O	The Use Of Insecticide Treated Nets And The Effect Of Intermittent Preventive Treatment In Malaria Control Among Pregnant Women In (Olugbo) Odeda Local Government Area Of Ogun State.	2007	M.Sc Completed	Major
Obe, V.O	Biochemical and Haematological Impacts of Malaria and HIV Infections among Pregnant Women in Abeokuta.	2009	M.Sc Completed	Major

Soniran O.T	Surveillance for <i>Plasmodium falciparum</i> Drug Resistant Strains in Human population.	2011	Ph.D On-going	Major
Ajayi, O	Effectiveness of Insecticide laden paint in the Control of malaria	2014	M.Sc/Ph.D	Major
Olorunniyi O	To be determined	2014	M.Sc/Ph.D	Major
Fagbemi F.T	To be determined	2015	M.Sc/Ph.D	Major
Babalola, A.S.	Occurrence of Placental and Congenital Malaria in Newborns in Abeokuta.	2012	M.Sc Completed	Major
Adeniyi O.F	Malaria Parasite Infection in different HIV Serotypes in Abeokuta.	2012	M.Sc Completed	Major
Akarigbo T.O	Studies on Malaria and Intestinal Parasites infection in Children under-two years	2012	M.Sc On-going	Major
Odeyemi J.O.	Studies on Placental, Congenital Infection and Pregnancy Outcomes In Mice infected with <i>Plasmodium berghei</i>	2014	On-going	Major
Fawole	Studies on Nosocomia Malaria in Selected Hospitals in Abeokuta	2014	On-going	Major
Igenzoza, A.J	Bovine trypanosomosis and its impact on cattle in derived savanna areas of Ogun State, Nigeria.	2004	M.Sc Completed	Collaborative
Asiwaju, R.T	Communal and Perception Study of Intestinal Helminthes and Malaria Parasites in Some Guineaworm Controlled Communities in Ogun State, Nigeria.	2004	M.Sc Completed	Collaborative
Abe, E.M	Geospatial Distribuion Of Fresh Water Snails Intermediate Hosts Of Parasites In Abeokuta Area Of Ogun State, Nigeria.	2008	M.Sc Completed	Collaborative
Owolabi, O.J	Comparison of the efficacies of commonly used antibiotics for the treatment of Salmonella enterica serovar typhi infection	2007	M.Sc Completed	Collaborative
Opatola O.S	Integration of Behavioural Change, Treatment, Water, Sanitation and Hygiene in the Elimination of Soil Transmitted Helminthes, Ogun State, Nigeria.	2014	M.Sc On-going	Collaborative
Lateef O.N	Non-Tuberculous Mycobacteria Associated with HIV Patients on Antiretroviral Therapy in Abeokuta, Nigeria.	2013	M.sc On-going	Collaborative

CONTRIBUTIONS TO KNOWLEDGE

My research has been geared towards control of parasitic diseases with special interest in maternal and child health. Two important areas of focus can be clearly spelt out.

MALARIA RESEARCH

Malaria in Pregnancy

Pregnant women are the main adult group at risk for malaria; My research has partly been geared towards investigating malaria and its effect on pregnant women in Abeokuta. The study identified the need to improve on malaria prevention during pregnancy as a high prevalence of malaria infection

was recorded in Abeokuta (**Publications 7 and 14**). A high level of anaemia was also reported in our study on pregnant women especially among primigravids and women patronizing Traditional birth homes (TBH) for antenatal care (**Publication 6**). I also reported Traditional Birth Home (TBH) attendance by pregnant women as partly responsible for the high prevalence of malaria in pregnancy recorded in Abeokuta. This therefore identifies women in TBH as targets for malaria control interventions. It was also documented through my research that Patronage of TBHs was linked more with cultural beliefs than poverty, since the cost of antenatal care at the TBH was higher than that of the public hospitals in the same locality (**Publication 14**).

One of the ways of managing severe anaemia is to transfuse such individuals with whole or packed blood cells. My study on transfusion malaria revealed that blood bank storage of malaria parasite infected blood does not destroy the parasite infectivity or virulence but only slows down an initial level of parasite multiplication in a transfused individual(**Publication 17**)

Poor knowledge on causes, treatment and prevention of malaria were observed to influence the health seeking behaviour of pregnant women with respect to malaria prevention and treatment. (**Publications 11, 13 & 14**). The use of herbal remedy was observed to be generally high and patronage of drug vendors for the treatment of malaria was identified by some of the studies conducted as a major limitation to malaria control in Abeokuta and that drug hawkers sold counterfeits and substandard antimalaria tablets (**Publications 7 &8**).

We have also through research documented risk factors associated with occurrence of placental malaria in Abeokuta (**Publication 41**)

Herbs and Malaria Treatment

The common use of herbal remedies for malaria treatment in the populace prompted an ethnobotanical survey in Abeokuta and its environs to document the commonly used antimalaria plants in the state (**Publication 19**). *Morinda morindiodes* was one of the commonly used plant for malaria treatment but with little or no scientific backing to its efficacy, hence the need for us to test its antimalaria properties(**Publication 26**). For the first time in literature, the antimalaria property of *Morinda morindiodes* was documented through my research; although its effect is suppressive and not able to clear the parasites. The toxicity of some of the antimalaria plant extract was also studied to determine their safety (**Publication 28 &36**).

Further studies were carried out to ascertain the effect of combination of herbs with antimalaria properties (as commonly used by people) on the malaria parasite. Combination of herbal remedies for malaria treatment was observed to decrease the chemosuppressive ability of the extracts. Despite the strength of *M. morindiodes* and *M. lucida* in monotherapy, administration of combination of these extracts in infected mice was unable to achieve the chemosuppression level recorded when administered singly (**Publication 35**).

Malaria Vector and Environmental Management

Environmental management is essential in the control of malaria in any community. Some of my studies were also geared towards mosquito behavior as well as assessing the effects of control measures against the malaria vector. Although in literature Anopheles mosquitoes do not breed indoors but we wanted to test the possibility of an evolution in its behavior. In one of our studies we investigated the likelihood of malaria parasite vector breeding indoors and we reported that only three species: *Ae. aegypti*, *Cx. quinquefasciatus* and *E. chrysogaster* were encountered to breed indoors, *Anopheles spp* did not breed in door (**Publication 29**). This was also corroborated by our

study of effect of indoor water storage on malaria prevalence among pregnant women in Abeokuta (**Publication 32**)

The first operational research on the impact of the use of Long Lasting Insecticide Nets (LLIN) in malaria prevention in Abeokuta was conducted in some of my research studies (**Publication 23**). Factors responsible for limited use of LLIN for malaria prevention were also documented (**Publication 23**).

The commonly used measure against malaria vector (mosquitoes) – window and door nets were reported in my studies as ineffective since most window net were observed to be damaged though still in use (**Publication 25**).

The incorporation of public enlightenment and LLIN usage monitoring as well as mobilization has been documented to have a higher chance of reducing malaria prevalence than when LLIN are just distributed without any follow-up on recipients (**Publication 34**).

We also documented that road construction activities in Abeokuta metropolis increased mosquito population and malaria prevalence in the areas where construction activities are on-going (**Publication 38**); hence the need to intensify control activities in areas with such developmental activities.

(ii) Other Human and Animal Parasites of Medical Interest.

Studies conducted on prevalence and limitation to control of helminth and protozoan parasites revealed the following

- (a) The high level of faecal contamination has contributed immensely to the high prevalence of faecal orally transmitted parasites in Abeokuta metropolis (Publication 9) .
- (b) Food vendors in Abeokuta were identified as major facilitators in food contamination (Publication 9).
- (c) Helminth infection in pregnant women could contribute to anaemia in pregnancy and much more with helminth -malaria co-infection (Publication 5)
- (d) Poor level of hygiene, ignorance and finger sucking habit of children exposes them more to intestinal parasite infections (Publication 23).
- (e) The need to enforce meat inspection policy was recommended in our study on Fascioliasis, this is because Fasciola infected liver were sold in Abeokuta markets and such liver were discovered to have poor nutritional values (12).

12. EXTRA CURRICULLA ACTIVITIES

- (i) **Zonal Secretary**, Ladies of the Full Gospel Business Men's Fellowship International, Abeokuta Zone.
- (ii) **Church Administrator**, Stone Church light House, Abeokuta.
- (iii) **Reviewer:** Nigerian Journal of Parasitology and Public Health.

(12b) Hobbies: Reading, singing and cooking

13. REFEREEES

- i. Prof. U.F Ekpo
Department of Pure and Applied Zoology
Federal University of Agriculture, Abeokuta.
- ii. Prof. C.F Mafiana

Office of the Executive Secretary
National University Commission
Abuja, Nigeria.

- iii. Prof(Mrs) C.O Eromosele
Department of Chemistry,
Federal University of Agriculture, Abeokuta.

Dated: June, 2017