. Publications

(a) Books already published: Nil
(b) Chapters in books already published: Nil
(c) Articles have already appeared in refereed conference proceedings:

1. **Afolayan F**., Anumudu C. I., Adegbolagun O. M., Orwa J. A., Irungu B. N., Kangethe L. N., Mathaura C. N., Nwikwabe M. N., Nyangacha R. M. and Omar S.A. (2014). *In vitro* antiplasmodial activity and cytotoxicity of some medicinal plants indigenously used in Nigeria against Malaria. In Willey J.M, Sherwood L.M. and Woolverton, C.J. Eds. *Proceedings of the 4th Walter Sisulu University International Research Conference.17 – 19th August 2011*. Eastern Cape, South Africa. 9-19pp.

(d) Patents: Nil

(e) Articles that have already appeared in learned journals:

2. Kinuthia G.K., **Afolayan F. I. D**., Ngure V. and Anjili C.O. (2012). Selected practices among rural residents versus the prevalence of Amoebiasis and Giardiasis in Njoro District, Kenya. *African Journal of Health Sciences* Vol. 20: 11-20.

3. Awobode H. O., Fagbemi F. T. and **Afolayan F. I. D.** (2015). Antitrypanosomal activity of *Khaya senegalensis* and *Anogeissus leiocarpus* stem bark on *Trypanosoma brucei brucei* infected rats. *African Journal of Biotechnology* Vol. 14. No. 6: 525 – 529.

4. **Afolayan F. I. D.**, Adegbolagun O.M., Irungu B., Orwa J., Kangethe L., and Anumudu C.I. (2016). Antimalarial actions of *Lawsonia inermis*, *Tithonia diversifolia* and *Chromolaena odorata* in combination. *Journal of Ethnopharmacology* Vol. 191: 188–194..

5. Busari Z. A, Dauda K. A, Morenikeji O. A, **Afolayan F**., Oyeyemi O. T, Meena J., Sahu D. and Panda A. (2017). Antiplasmodial Activity and Toxicology Assessment of Curcumin PLGA-encapsulated nanoparticles. *Frontiers in Pharmacology* Vol. 8: 622.

6. Dauda K., Busari Z., Morenikeji O., **Afolayan F**., Oyeyemi O., Meena J., Sahu D.and Panda A. (2017). Poly (D, L-lactic-co-glycolic acid)-based artesunate nanoparticles; formulation, antimalarial and toxicity assessments. *Journal of Zhejiang University-Science* B Vol. 18 No. 11: 977-985.

7. **Afolayan F. I. D**, Erinwusi B. and Oyeyemi O. T. (2018). Immunomodulatory activity of curcumin-entrapped poly d, 1-lactic-co-glycolic acid nanoparticles in mice. *Integrative Medicine Research* Vol. 7, 168 – 175.

8. Oyeyemi O. T., Morenikeji O., **Afolayan F**., Dauda K., Busari Z., Meena J., Sahu D. and Panda A. (2018). Curcumin-Artesunate Based Polymeric Nanoparticle; Antiplasmodial and Toxicological Evaluation in Murine Model. *Frontiers in Pharmacology* Vol. 9: 562.

9. **Afolayan F. I. D.,** Ayinde E.M. (2019). *In silico* Antimalarial Docking and Admet Studies of Phytocompounds Derived from *Tithonia diversifolia*. *Journal of Science Research* Vol. 18: 35-46.

10. **Afolayan F. I. D**, Oladokun A. and Fasoranti E. (2020). Comparative *in vivo* Antiplasmodial activities of different extracts of *Lawsonia inermis, Tithonia diversifolia* and *Nauclea latifolia* against *Plasmodium berghei*. *African Journal of Biological Sciences*
Vol. 2 No.1: 9-17.

11. Lazarus D. D., **Afolayan F. I. D**, Mamo G., Dinga J. N., Akinbobola J., Duedu K. O., Tshifhiwa N., Kassa T., Nene V., Dieye Y., Oumouna M. (2020) African Vaccinology Network (AfVANET): an African network by African scientists. *Pan African Medical Journal* 37 (66): 1-4.

12. **Afolayan F. I. D**, Sulaiman K. A. and Okunade W. T. (2020). Ethnobotanical survey of plants used in cancer therapy in Iwo and Ibadan, South-Western of Nigeria. *Journal of Pharmacy and Pharmacognosy Research* Vol. 8 No. 5: 346 – 367.

13. **Afolayan F. I. D**, Adegbolagun O., Nwikwabe N.N., Orwa, J., Anumudu, C.I.A. (2020). Cytokine modulation during malaria infection by some medicinal plants. *Scientific African* 8, e0042.

14. Oriade, T. O., Alao O. S. and **Afolayan, F. I. D** (2021). Immunostimulatory Effect of *Phoenix Dactylifera* Supplemented Diet on *Aeromonas hydrophila* Infected *Clarias gariepinus Pan African Journal of Life Sciences* Vol. 5 No. 1: 214-224.

15. **Afolayan F. I. D**. and Ijidakinro O. D. (2021). *In silico* antiparasitic investigation of cmpounds derived from *Andrographis paniculata* on some parasites validated drug targets. *African Journal of Biological Sciences* Vol. 3 No. 3: 93-110.

16. Akinlalu A. O., Chamundi A., Yakumbur D. T., **Afolayan F. I. D**., Duru I. A., Arowosegbe M. A and Enejoh O. A. 2021. Repurposing FDA-approved drugs against multiple proteins of SARS-CoV-2: An *in-silico* study. *Scientific African* Vol. 13: e00845.

17. **Afolayan F. I. D**; Abdulkareem M. (2021). *In Silico* Prediction of Antiplasmodial and Anti-Inflammatory Potentials of Compounds Derived from *Vernonia amygdalina*. *Bulletin of the Science Association of Nigeria* Vol. 32: 56 – 79. (Nigeria) (Contribution: 80%).

18. **Afolayan F. I. D**. and Sowemimo R. (2022). Ethnobotanical study of plants used for treating intestinal worms in Ibadan, Nigeria. *The Zoologist* Vol. 20:32-40.

19. **Afolayan F. I. D**., Adegbolagun O., Irungu B., Orwa, J., Anumudu C. (2023) Antimalarial potential of five Nigerian medicinal plants: Repository versus curative activities. *INNOSC Theranostics and Pharmacological Sciences* Vol. 6 (2).

20. **Afolayan F. I. D**, Tarkaa C. T. (2023) Network pharmacology-based assessment of anti-inflammatory action of phytocompounds derived from *Nigella sativa* and *Moringa oleifera. Drug Discovery* Vol. 17:e13dd1016.

21. **Afolayan F. I. D**, Ibrahim S. (2023) Computational simulations of phytoconstituents derived from *Phyllanthus amarus* against *Plasmodium falciparum* molecular targets. *Drug Discovery* Vol. 17: e26dd1937.

22. **Afolayan, F. I. D**., Salaam, R. A. (2023) Elucidation of Antiplasmodial activity of Phytocompounds in *Nauclea latifolia*: *In silico* approach. *Journal of Science Research* Vol. 20: 120 - 148.

23. Afolayan F. I. D., Deborah G. Joseph D. G., Salaam R. A. (2023) Network pharmacology-based findings of the immunomodulatory activity of phytocompounds from *Withania somnifera* and *Aloe barbadensis INNOSC Theranostics and Pharmacological Sciences 1076* *https://doi.org/10.36922/itps.1076*

24. Afolayan F. I. D; Abdulkareem M. (2021). *In Silico* Prediction of Antiplasmodial and Anti-Inflammatory Potentials of Compounds Derived from *Vernonia amygdalina*. *Bulletin of the Science Association of Nigeria* Vol. 32: 56 – 79.

25. **Afolayan F. I. D.**, Ketenfe M., Adesoye S. D. (2023). Ethnobotanical Survey of Medicinal Plants Traditionally used to Boost Immunity in Oyo State, Southwestern Nigeria. *Nigerian Journal of Immunology* Vol. 4:36-44.

26. Salaam R. A. and **Afolayan F. I. D** (2024). Antiplasmodial mechanism of *Lawsonia inermis*: An *in silico* based investigation. *Infectious Diseases Research* Vol. 5 (1): DOI:10.53388/IDR2024003

27. **Afolayan F. I. D** and Oladokun S. A. (2024). *In silico* antiplasmodial effects of phytocompounds derived from *Andrographis paniculata* on validated drug targets of different stages of *Plasmodium falciparum*. *Infectious Diseases Research* Vol.5 (2):6.

28. Afolayan F. I. D., Salaam R. A., Oladokun E. S., Adesoye S. D. (2024). A Review of Selected Parasitic Plants in Nigeria: Converting Harms to Benefits. *Natural Therapy Advances* 7 (3): 14

29. Afolayan F. I. D., Odeyemi R. A., Salaam R. A. (2024) *In silico* and *In vivo* Evaluations

of Multistage Antiplasmodial Potency and Toxicity Profiling of n-Hexadecanoic acid derived from *Vernonia amygdalina*. *Experimental Pharmacology and drug discovery* 15 doi: 10.3389/fphar.2024.1445905.

. Major Conferences/Workshops Attended with Papers Read (in the last 5 years)

Presentations at Conferences/Workshops (in the last 5 years)

1. Facilitation of a Virtual International *In Silico* Research Workshop on Molecular Docking, Network Pharmacology, QSAR and ADMET. 5 – 8 and 19 - 22 February, 2024
   Papers Read: Introduction to Computer-Aided Drug Design; Introduction to Molecular Docking and Its Applications; Introduction to Computer-Aided ADMET and its Relevance to Drug Discovery; Introduction and Relevance of Network Pharmacology; Gene Ontology and KeGG Pathways – Key Parts in Elucidation of Molecular Mechanisms (Oral virtual presentation).

2. Forum of Nigerian Toxicologists (FONTOX). 2ND Biennial National Conference 21 – 24 November, 2023. University of Ibadan, Nigeria
   Paper Read: Afolayan F. I. D. *In silico* Approaches to Toxicology

3. International Veterinary Vaccinology Network Early Career Researcher Workshop. 20-24 March 2023. The University of Edinburgh, Easter Bush, Scotland, U.K
   Paper Read: Afolayan F. I. D. Communicating with non-scientists: A case of IVVN Africa Schools Outreach in Nigeria.

4. North-South Scientific Online Meeting on Natural Products by Research Awake Africa Initiative on 6-8 February, 2023.
   Paper Read: Afolayan F.I.D., Abdulkareem M., Odeyemi R., Adesoye S. *In silico* and *In vivo* Antiplasmodial and Immunomodulatory effects of *Anogeisus leiocarpus* derived in n-Hexadecanoic acid (Oral virtual presentation).

5. 2022 Pharma-Food Conference on 4-7 October at Landmark University, Omu-Aran, Kwara State, Nigeria.
   Paper Read: Afolayan Funmilayo I. D. and Mutiu O. Ethnobotanical Survey of Medicinal Plants with Immunostimulatory Properties in Oyo State, Nigeria (Oral Presentation).

6. Drug discovery and development colloquium 2022 on 22 July, 2022. Held virtually and hosted by the American Association of Pharmaceutical Scientists (AAPS) student chapters of the University of Arkansas for Medical Sciences and the University of Louisiana at Monroe.
   Paper Read: Afolayan Funmilayo I.D., Abdulkareem Muyidat, Ijidakinro Sekemi. An *in silico* study of Antiplasmodial and Anti-inflammatory potentials of compounds derived from *Anogeisus leiocarpus* (Poster presentation).

7. 54th Annual (HYBRID) Conference of the Science Association of Nigeria "OLUYOLE 2021" on Securing the Nigerian Environment through Science, Technology, and Innovation (STI). 20 – 24 June 2021; Faculty of Science, University of Ibadan, Ibadan Nigeria.

Paper Read: Afolayan F. I. D. and Abdulkareem M. *In silico* prediction of antiplasmodial and anti-inflammatory potentials of compounds derived from *Vernonia amygdalina* (Oral Presentation).

8. Keystone Symposia on the Malaria Endgame: Innovation in Therapeutics, Vector Control and Public Health Tools. October 2 – November 2, 2019. Addis Ababa, Ethiopia.
   Paper Read: **Afolayan F. I. D.** and Ayinde E.M. *In Silico* Docking of Phytocompounds Derived from *Tithonia diversifolia* Against *Plasmodium falciparum* Molecular Targets (Poster presentation)

9. African Vaccinology Network (AfVANET) Scientific Workshop Nairobi, Kenya 19-20 March 2019.
   Paper Read: Afolayan F. I. D. Towards the discovery of Adjuvants and Immunomodulators for Infectious Diseases from Botanicals (Oral Presentation).