

CURRICULUM VITAE

- I. (a) Name: Prof. Dorcas Olufunke Moronkola (Nee Ajani)
(b) Address: F101, Chemistry Department, University of Ibadan, Nigeria
(c) Present Post: Professor of Chemistry
(d) Date of Birth: 6 October, 1964
(e) Department: Chemistry
(f) Faculty: Science
- II. University Education (with dates)
(a) University of Ibadan, Ibadan. 1982 - 1985
(b) University of Ibadan, Ibadan. 1987 - 1988
(c) University of Ibadan, Ibadan. 1989 - 2001
(d) University of Ibadan, Ibadan. 2004 - 2005
- III. Academic Qualifications (with dates and granting bodies)
(a) B.Ed (Chemistry/Zoology) University of Ibadan, Ibadan 1985
(b) M.Sc (Organic Chemistry) University of Ibadan, Ibadan 1988
(c) Ph.D (Organic Chemistry) University of Ibadan, Ibadan 2001
(d) M.Ed (Science Education) University of Ibadan, Ibadan 2005
- IV. Membership of Learned Societies, Honours and Distinctions
(a) Fellow Member of The Royal Society of Chemistry [FRSC-UK-653279]
(b) Member, GA (Gesellschaft für Arzneipflanzen- und Naturstoff-Forschung e.V.), Society for Medicinal Plants and Natural Product Research.
(c) Member, Chemical Society of Nigeria [CSN]
(d) Member, Organization for Women in Science for the Developing World [OWSD]
(e) Member, Society of Essential Oils Distillers and Analysts [SEODA]
(f) Member, Science Association of Nigeria [SAN]
(g) Member, Science Teachers' Association of Nigeria [STAN]
(h) Associate Member, Institute of Chartered Chemists of Nigeria [ICCON] since 2006
(i) Member International Society for the Development of Natural Products [ISDNP] since 2007
(j) Member of Women in Technical Education [WITED] 2000 to 2006
(k) TWAS-UNESCO Fellowship. University of Botswana, Gaborone, Botswana TWAS-UNESCO Associateship - Ref. 3240278167. [April-June 2015].
(l) ACTF DWScholarship for Postdoc. Studies, University of Aberdeen-Scotland, UK [honorary ID number is: 42015006]. [January – May 2018].
(m) One of the best four authors of PhD Theses presented by Post graduate School, University of Ibadan for the Nigerian University Post Graduate Theses Award Scheme (NUPTAS) 2002 edition.
(n) Best M.Sc (Organic Chemistry) Student, University of Ibadan, Ibadan. 1988 (Hence proceed for Ph.D and offered a Graduate Teaching Assistant in Chemistry Department) 1989.
(o) I utilized Education Trust Fund (ETF) award (N1million) to attend and participate in the 59th GA (Gesellschaft für Arzneipflanzen- und Naturstoff-Forschung e.V.), Society for Medicinal Plants and Natural Product Research Conference; and 42nd International Symposium on Essential Oils (ISEO). Venue: Maritim Pine Beach Resort, Antalya Turkey, on 4 to 9 and 11 to 14 September, 2011.

- (p) I had been journal reviewer since 2005. e.g. Bowen Journal of Agriculture (BJA) 2005 to 2006; Journal of Women in Technical Education [JOWITED]. 2005; Journal of Essential Oil Bearing Plants (JEOBP), Ife journal of Science etc.

V. Details of Teaching/ Work Experience

(a) Work Experience

- (i) Graduate Teaching Assistant, Chemistry Department, University of Ibadan, Ibadan. January to December, 1989
- (ii) Lecturer III and II (Chemistry) St Andrews' College of Education, Oyo. Nigeria. 18 April, 1990 to 30 September, 1996
- (iii) Lecturer I to Principal Lecturer, Chemistry Department, The Polytechnic Ibadan, Ibadan. Nigeria. 1 October, 1996 to 30 November, 2006
- (iv) Senior Lecturer, Chemistry and Biochemistry Department, Bowen University, Iwo. Nigeria. (On Sabbatical Leave) 2004/ 2005 session
- (v) Senior Lecturer, Chemical Sciences Department, Olabisi Onabanjo University, Ago-Iwoye, Ogun-State, Nigeria. 1 December, 2006 to 28 February, 2012
- (vi) Senior Lecturer, Chemistry Department, University of Ibadan, Ibadan, Nigeria. 1 March, 2012 to 2015
- (vii) Reader, Chemistry Department, University of Ibadan, Ibadan, Nigeria. October 2015 to 2018
- (viii) Professor of Chemistry, Department of Chemistry, University of Ibadan, Ibadan, Nigeria. October 2018 to Date

(b) Teaching Experience

Teaching and Supervision at Undergraduate and Postgraduate Levels:

(c) Teaching Experiences:

(i) Undergraduate courses

CHE 176 Organic Chemistry I

CHE 277 Polyfunctional Groups and Aromatic Chemistry with Mechanisms of Reactions

CHE 281 Research Methods and Presentation Techniques

CHE 376 Organic Chemistry III

ICH 397 Industrial Attachment

CHE 476 Photochemistry and Biologically Active Natural Products

CHE 481 Chemistry Seminar

(ii) Postgraduate courses

CHE 765 Advanced Natural Products Chemistry

CHE 766 Synthetic Methods in Organic Chemistry

(iii) Project Supervisions:

B.ScM.ScM.Phil/PhD and PhD

(d) Administrative Responsibilities in University of Ibadan

Member, Departmental Social Committee 2012-2017

Member, Departmental Advancement and
Alumni Relations Committee 2015-date

Student Chemical Society Liaison Officer 2018

Member, Postgraduate Registration and
Examination Committee (M.Sc. Matters) 2018

Member, Zoological Garden Management Board 2016-2017

Member, Faculty of Science Publication Committee 2018

Faculty of Science Representative on Board of Veterinary Medicine 2008

Member, Senate [Congregation Representative] 2016-date

The Liaison officer, SCSN (Students Chemical Society of Nigeria) 2020 to Date

VI. Research

(a) Project, Dissertation and Thesis

(i) **Ajani D.O.** (1985). Problems Facing Effective Teaching and Learning through Practical Chemistry in Nigerian Secondary Schools and Likely solutions. B.Ed [Chemistry/Zoology] Project submitted to the Department of Teacher Education, University of Ibadan, Ibadan.

(ii) **Ajani D.O.** (1988). A study of Effects of Thermal Maturation on Relative Abundances of Selected Biomarkers in Some Shales and Oils from Tertiary Niger Delta. Masters Project, Chemistry Department, University of Ibadan, Ibadan.

(iii) **Moronkola D.O.** (2001). Essential Oils from the Fruits of Six Nigerian Plants and Syntheses of Fragrant Terpenoids. Ph.D Thesis, Chemistry Department, University of Ibadan, Ibadan.

(iv) **Moronkola D.O.** (2004). Effects of Analogy and Problem-Solving Strategies on University Students' Achievement in and Attitude to Chemistry. An M.Ed [Science Education] Project in the Department of Teacher Education, University of Ibadan.

VII. Publications

(a) Chapters in Books already published

1. Moronkola O.A. and **Moronkola D.O.** (1997): Writing the Research Report: In Understanding Research Methodology In Education [Eds: Moronkola O.A. ; Abe C.V. and Ogunwuyi A.O.] Amazing Grace Educational Services, Nigeria. P.113 to 124.

2. **Moronkola D.O.** and Okunade M.B. (2005). Chemistry for Young Scientists and Non-Science Professionals. Ibadan Royal People Publishers, Ibadan. Pages 1-107.

3. **Moronkola, D.O.**,(2012). Developments in phytochemistry. In Vallisuta, O. and Olimat, S.M. (Eds). *Drug discovery research in pharmacognosy* Rijeka: In-Tech.11-22pp. ISBN 978-953-51-0213-7.(Croatia)
 4. **Moronkola,, D.O.**, Ojah, E.O., Ajiboye, C.O., Akinpelu, O.E. and Ekundayo, O. (2020). The Role of Characterised Most Abundant Compounds on Impact Notes in Essential Oil Research with Bioactivity Aspects (Chapter 8). In: *Natural Products and Therapeutics. What to know about essential oils.* Editor: Malene M. Kjeldsen. By Nova Science Publishers, Inc. ISBN: 978-1-53617-986-6 P. 243-282. [Phone: +1-(978) 750-8400 Fax: +1-(978) 750-4470 E-mail: info@copyright.com]. [NY 11788 USA. Tel: 631- 231-7269, Fax: 631-231-8175. [www.novapublishers.com].
- (b) Articles that have already appeared in learned journals
5. Ekundayo, O., Sappanen-Laakso, T.,Laakso, I. and **Ajani, F.** (1991). Volatile constituents of *Psidium guajava* L. (guava) fruits.*Flavour and Frangrance Journal* Vol.6, 233-236.<http://www.0882-5734/91/030233-04> \$05.00 0 1991 by John Wiley & Sons, Ltd.
 6. **Moronkola D.O.** (1995). Some Methods of Purification of Organic Substances. *Journal of School Health Education*, 2 (1&2), 38-41.
 7. **Moronkola. D.O.** (1996). Safety Precautions, Rules and Regulations in Chemistry Laboratories. *Journal of School Health Education*, 3 (1&2), 49-52.
 8. Moronkola O.A. and **Moronkola D.O.** (1999). Chemical Pollutants: A threat to healthful living. *Journal of School Health Education*, 6, (1&2). 58-62.
 9. **Moronkola D.O.** (2000). Alcohol - Chemical Constituents and Effects on Human Performance. *Journal of School Health Education* 7, (1&2), 34-39.
 10. **Moronkola, D.O.** and Ekundayo, O. (2000). Chemical constituents in the fruit essential oil of *Terminalia catappa* Linn (almond fruits). *Journal of Tropical Forest Resources* Vol.16, No.1, 72-79. ISSN 0189 - 3130
 11. **Moronkola, D.O.** and Ekundayo, O. (2002). Volatile constituents of *Irvingiagabonensis*Aubry-LecomtextO'RorkeBaillon fruits (African native mango). *Journal of Tropical Forest Resources* Vol.18, No.1: 56-63.ISSN 0189 - 3130
 12. **Moronkola, D.O.**, Adeleke, A.K. and Ekundayo, O. (2003). Constituents of the *Spondiasmombin* Linn and the comparison between its fruit and leaf essential oils. *Journal of Essential Oil Bearing Plants* Vol.6, No.3: 148-151. [<http://www.tandfonline.com/loi/teop20>]. [ISSN: 0972-060X (Print) 0976-5026 (Online) Journal homepage: <http://www.tandfonline.com/loi/teop20>].
 13. **Moronkola, D.O.**, Aiyelaagbe, O.O. and Ekundayo, O. (2005). Syntheses of eight fragrant terpenoids (ionone derivatives) via the aldol condensation of citral and eight ketones. *Journal of Essential Oil Bearing Plants* Vol.8, No.1: 87-98.

14. **Moronkola, D.O.**, Ogunwande, I.A. and Ekundayo, O. (2005). A review of aroma compounds in valuable African shrubs and fruit plants. *Bowen Journal of Agriculture* Vol.2, No.1: 49-59.
15. **Moronkola, D.O.**, Oyedeji, A.O. and Ekundayo, O. (2006). Composition of the root essential oil of *Chrysophyllum albidum* G. Don. *Bowen Journal of Agriculture* Vol.3, No.1: 53-58.
16. **Moronkola, D.O.**, Ogunwande, I.A., Walker, T.M., Setzer, W.N. and Oyewole, I.O. (2007): Identification of the main volatile compounds in the leaf and flower of *Tithonia diversifolia*(Hemsl.) Gray,. *Journal of Natural Medicines* Vol.61, 63–66. DOI 10.1007/s11418-006-0019-5 [<https://doi.org/10.1007/s11418-006-0019-5>]
17. **Moronkola, D.O.**, Adeleke, A.K. and Ekundayo, O. (2007). Composition of the limonene dominated leaf essential oil of Nigerian *Anacardium occidentale*. *Journal of Essential Oil Research* Vol.19, No.4: 301-303.
18. **Moronkola, D.O.**, Aiyelagbe, O.O., Adesanwo, J.K. and Ekundayo, O. (2007). Characterizations in studying the effect of acid reagent on the rearrangement reaction of camphoroxime producing different ratios of the α : β -campholene nitriles. *Ifè Journal of Science* Vol.9, No.2: 231-240.
19. **Moronkola, D.O.**, Oladosu, I.A., Ogunwande, I.A. and Olubomehin, O.O. (2008). Comparison of the chemical compositions of the essential oils from the aerial parts, fruits and roots of Nigerian *Laportea aestuans*(L.) Chew (Urticaceae). *Natural Product Communications* Vol.3, No.11: 1921-1924.
20. Oyewole, I.O., Ibidapo, C.A., **Moronkola, D.O.**, Oduola, A.O., Adeoye, G.O., Anyasor, G.N. and Obansa, J.A. (2008). Anti-malarial and repellent activities of *Tithonia diversifolia*(Hemsl.) leaf extracts. *Journal of Medicinal Plants Research* Vol.2, No.8: 171-175.
21. **Moronkola, D.O.**, Ogunwande, I.A., Oyewole, I.O., Can Baser, K.H., Ozek, T. and Ozek, G. (2009). Essential oil composition of *Gmelina arborea* Roxb., Verbenaceae, from Nigeria. *Journal of Essential Oil Research* Vol.21, 264-266.
22. **Moronkola, D.O.**, Ogunwande, I.A., Oyewole, I.O., Can Baser, K.H., Ozek, T. and Ozek, G. (2009). The needle oil of *Pinus caribaea* Morelet from Nigeria. *Journal of Essential Oil Research* Vol.21, 342-344.
23. **Moronkola, D.O.**, Ogunwande, I.A., Oyewole, I.O., Can Baser, K.H., Ozek, T. and Ozek, G. (2009). Studies on the volatile oils of *Momordica charantia* L. (Cucurbitaceae) and *Phyllanthus amarus* Schett Thonn. (Euphorbiaceae). *Journal of Essential Oil Research* Vol.21, 393-399.
24. **Moronkola, D.O.**, Faruq, U.Z. and Osho, A. (2009). Essential oils of stem and leaf from Nigerian *Brillantaisiapatula* T. And. var. *Journal of Essential Oil Bearing Plants* Vol.12, No.5: 569–573.
25. **Moronkola, D.O.**, Atewolara-Odule, O.C. and Olubomehin, O.O. (2009). Compositions and comparison of the leaf and stem essential oils from Nigerian *Hypoestes phyllostachya* ‘rosea’ p. Beau. [Acanthaceae]. *African Journal of Pharmacy and Pharmacology* Vol.3, No.9: 458-462.

26. Adesanwo, J.K., Aiyelaagbe, O.O. and **Moronkola, D.O.** (2009). Antimicrobial and cytotoxic activity of the stem and root bark extracts of *Quassia undulata* and isolated constituents. *Toxicological and Environmental Chemistry* Vol.91, No.5:999-1003.
27. **Moronkola, D.O.**, Oladosu, I.A., Osho, A, and Ali, M.S. (2009). Chemical Composition and Anti-inflammatory Activity of the Essential Oil of the Aerial Part of *Mezoneuron benthamianum* Baill. (Caesalpinoideae). *European Journal of Applied Sciences* Vol.1, No.3: 30-33.
28. Osho, A., Adetunji, T., Fayemi, S.O. and **Moronkola, D.O.** (2010). Antimicrobial activity of essential oils of *Physalis angulata* L. *African Journal of Traditional and Complement Alternative Medicine* Vol.7, No.4: 303-306.
29. Oyewole, I.O., **Moronkola, D.O.**, Ogunwande, I.A., Okoh, H., Ibidapo, C.A., Denloye, A.A.B., Adeoye, G.O., Ogunnowo, A.A. (2010). Larvicidal activity of the essential oil from *Phyllanthus amarus* Sch. et Thonn (Euphorbiaceae) against three species of mosquitoes. *Der Pharmacia Letter* Vol.2, No.6: 136-141.
30. **Moronkola, D.O.** (2011). Essential oils from aerial, seed and root of Nigerian *Asystasiagangetica* (L). *Journal of Essential Oil Bearing Plants* Vol.14, No.5: 582–589.
31. **Moronkola, D.O.**, Ogukwe, C. and Awokoya, K.N. (2011). Chemical compositions of leaf and stem essential oils of *Calotropis procera* Ait R.Br [Asclepiadaceae]. *Der Chemica Sinica* Vol.2, No.2: 255-260.
32. **Moronkola, D.O.** and Kunle, O.F. (2012). Essential oil compositions of leaf, stem, bark and root of *Alstoniabooneide* wild (Apocyanaceae). *International Journal of Biological and Pharmaceutical Research* Vol.3, No.1: 51-60.
33. Oladosu, I.A., **Moronkola, D.O.**, Osho, A. and Alli, M.S. (2012). Volatile oil constituents and anti-inflammatory potential of the essential oil of the leaves and roots of *Flabellariapaniculata* car (malpighiaceae). *Elixir Pharmacy* 50, 10272-10274.
34. **Moronkola, D.O.** and Faruq, U.Z. (2013). Chemical constituents of the leaf, stem-bark and root essential oils of *Antiarisafricana*. *Journal of Applied Pharmaceutical Science* Vol.3, No.6: 168–171.
35. **Moronkola, D.O.** and Oladosu, I.A. (2013). Chemical compositions of *Lonchocarpus cyanescens* Benth. (Fabaceae)- case study of its volatile oils, and two triterpenoids. *American Journal of Plant Science* Vol.4, 1653-1659.
36. **Moronkola, D.O.**; Adesanwo, J.K., Aiyelaagbe, O.O. and Faruq, U.Z. (2013). Essential Oil Composition of Three Compositae- *Aspillia africana*, *Chromolaena odorata*, *Syndrella nodiflora* and One Labiatae- *Hyptissuaveolens* Utilized as Rabbit Feeds. *Journal of Science Research* Vol.12, 327-344.
37. **Moronkola, D.O.** and Kunle, O.F. (2014). Constituents of leaf, stem bark and root volatile oils of *Anogeissus leiocarpus* DC. Guill. & Perr. (Combretaceae). *International Journal of Biological and Chemical Science* Vol.8, No.4: 1808-1818.

38. **Moronkola, D.O.**, Olaoluwa, O.O. and Kunle, O.F. (2014). Chemical Constituents in the Essential Oils of Leaf, Stem-bark and Root of *Morinda lucida* Benth. *Journal of Tropical Forest Resources* Vol.30, No.2: 176-186.
39. **Moronkola, D.O.**, Yeboah, S.O., Majinda, R.R.T. and Sichilongo, K. (2015). Compositions of *Harunganamadagascariensis*Lam. ex Poiret leaf and stem essential oils. *Journal of Chemical and Pharmaceutical Research* Vol. 7, No.5: 959-964.
40. **Moronkola D.O.**, Aboaba S.A. and Choudhary I.M. (2015). Composition of Volatile Oils from Leaf, Stem, Root, Fruit, and Flower of *Ruellia tuberosa* L. (Acanthaceae) from Nigeria. *Journal of Medicinal Plants Research*. Vol.8 No.4, 1031-1037, DOI: 10.5897/JMPR2015.5951.<https://doi.org/10.5897/JMPR2015.5951>.
41. Olaoluwa O.O., **Moronkola, D.O.**, Sichilongo, K. and Mgbeoji O. (2016). Essential oils constituents, phytochemical analyses, and antimicrobial studies on leaf and stem of *thunbergia laevis*nees. *World Journal of Pharmacy and Pharmaceutical Sciences*. Vol.5, No.7: 224-237.
42. Akinpelu O.E., **Moronkola, D.O.**, and Dawodu F.A. (2016). Antibacterial, antifungal and antioxidant activities of seven essential oils from *Blighiasapida*(K.Koenig). *Journal of Chemical, Biological and Physical Sciences*. Vol.6, No.4: 1179-1187.
43. Akinpelu O.E., **Moronkola, D.O.**, Dawodu F.A. and Sichilongo K. (2016). Chemical compositions of seven essential oils from *Blighiasapida*(K. Koenig), (Sapindaceae). *International Journal of Biological and Chemical Sciences*, Vol. 10, No.5: 2351-2368.
44. **Moronkola, D.O.**, Faruq, U.Z., Adigun, O.A. and Ajiboye C.O. (2017). Essential oil compositions of leaf, stem-bark, stem, root, flower, and fruit with seed of *Blighiaunijugata* Baker (Sapindaceae). *African Journal of Pharmacy and Pharmacology*.Vol.11, No.7: 108-119.
45. Ajiboye C.O., **Moronkola D.O.** and Adesomoju A.A. (2017). DPPH free radical scavenging activities of leaf, stem bark, root, flower and fruit of *Blighiaunijugata* Baker (Sapindaceae) extracts. *Journal of Chemical, Biological and Physical Sciences*. Vol.7, No.4: 1190-1197. [DOI: 0.24214/jcbps.B.7.4.119097]. <https://doi.org/0.24214/jcbps.B.7.4.119097>
46. Umenwa C.E., Ojah E.O.,**Moronkola D.O.** and Adesanwo J.K. (2017). Phytochemical and Antioxidant Assessments of Three Fractions from Methanol Extract of *Spathodeacampanulata*Beauv. Leaves. *Journal of Complementary and Alternative Medical Research*. Vol.3, No.3: 1-10.
47. Mbachu K.A.and **Moronkola D.O.** (2017). Compositions of *Thunbergia grandiflora* Leaf and Root Essential Oils. *Journal of Advances in Medical and Pharmaceutical Sciences*. Vol.15, No.1: 1-8.
48. **Moronkola, D.O.**, Kunle, O.F., Olaoluwa, O.O. and Ogukwe, C. (2017). Chemical compositions of *Dialiumguineense*Willd. leaf, stem-bark and fruit essential oils. *Journal of Complementary and Alternative Medical Research*.Vol.3. No.4: 1-8.
49. **Moronkola, D.O.**, Olaoluwa, O.O., Oladosu, I.A., Aboaba, S.A. and Aiyelaagbe, O.O. (2018). Phytochemical and antimicrobial activities of extracts from six

medicinal plants utilized as antimalarials in ethno-medicine. *The Pharmaceutical and Chemical Journal*. Vol.5. No.2: 52-61.

50. **Moronkola, D. O.**, Yeboah, S. O., Majinda, R.R.T., Yeboah, E., Fru, C. G. and Osamudiamen, P. M. (2018). Antioxidant properties of the methanol extracts of leaf, stem, fruit and seed of Nigerian *Harunganamadagascariensis*, an hypericaceae (gutiferae). *European Journal of Pharmaceutical and Medical Research*. Vol.5. No.9: 123-127.
51. Olaoluwa, O., **Moronkola, D.O.**, Taiwo, O. and Iganboh, P. (2018). Volatile oil composition, antioxidant and antimicrobial properties of *Boerhaviaaerecta* L. and *Euphorbia hirta* L. *Trends in Phytochemical Research (TPR)*. Vol.2. No.3: 171-178. Journal Homepage: <http://tpr.iau-shahrood.ac.ir>. [ePublished].
52. **Moronkola, D. O.**, Oladapo T., Adegbenro F., Ogunbanjo D.,and Olayinka K. (2019). Chemical constituents in essential oils of *Pterocarpus soyauxii* leaf, leaf stalk and stem bark. *Journal of Drug Delivery & Therapeutics*, Vol.9. No.2: 206-211. Available online at <http://jddtonline.info>
53. Ojah E.O., **Moronkola D.O.**, Petrelli R., Nzekoue F.K., Cappellacci L.,Giordani C.,Jaspars M.,and Tabudravu J.N. (2019). Chemical composition of ten essential oils from *Calophyllumphyllum*linn and their toxicity against *Artemia salina*. *European Journal Of Pharmaceutical And Medical Research*.ejpmr, 2019,6(12), 185-194. [www.ejpmr.com].
54. Adesanwo, J.K., Egbomeade, C.O., **Moronkola, D.O.** and Akinpelu, D.A. (2019). Chemical, Toxicity and Antibacterial Studies on Methanol Extracts of *Melanthera scandens*, *Ageratum conyzoides*, *Aspiliaafricana* and *Syndrellanodiflora*. *Journal of Exploratory Research in Pharmacology*. Vol.4. No.1: 1–7.
55. Ojah, E.O., **Moronkola, D.O.** and Osamudiamen, P.M. (2020) ‘Antioxidant assessment of characterised essential oils from *Calophyllumphyllum*Linn using 2,2-diphenyl-1- picrylhydrazyl and hydrogen peroxide methods. *Journal of Medicinal Plants for Economic Development*. Vol.4. No.1: 1-9. ISSN: (Online) 2616-4809, (Print) 2519-559Xa83. [https://doi.org/10.4102/ jomped.v4i1.83].
56. Ojah, E.O. and **Moronkola, D.O.** (2020). *In-vitro* alpha-amylase and glucosidase inhibitory potential of leaf hexane, ethyl acetate and methanol fractions from *Pterocarpus soyauxii*Taub. *Trends in Phytochemical Research(TPR)*. Vol.4. No.1: 37-44. Journal Homepage: <http://tpr.iau-shahrood.ac.ir>].
57. Ojah, E.O., **Moronkola, D.O.**, Ajiboye, C.O., Yusuf, T.L. and Adeniyi-Akee, M.A. (2021). Chemical Compositions, Antioxidant and Anti-diabetic Activities of Root Wood and Root Bark Essential Oils from *Pterocarpussoyauxii* TAUB., *Journal of Essential Oil Bearing Plants*, (JEOBP). Vol.24. No.1: 53-67. DOI: 10.1080/0972060X.2020.1864483 [https://doi.org/10.1080/0972060X.2020.1864483] [Published online: 24 Mar 2021].
58. **Moronkola, D.O.**, Jaspars, M., Rainer, E., Oluwabusola, E.T., Petrelli, R., Nzekoue, F.K., Cappellacci, L., Giordani, C., Tabudravu, J.N., Osamudiamen, P., Ajiboye, C.O., Ojah, E.O. and Salawu, K.A. (2021). Isolation with Characterization of Columbin and Novel Clerodane Furano-diterpene with GC-MS and Antimicrobial

Analyses of Essential Oils from *Sphenocentrum jollyanum* Pierre. J. Chem. Soc. Nigeria, (JCSN) Vol. 46, No. 6, pp 1084 – 1098 [2021].

59. Adeleye, T.A., Ajiboye, C.O., Ojah, E.O., Okesanjo, T.P. and **Moronkola, D.O.** Composition and Antioxidant Potential of Leaf and Stem Essential Oils from Nigerian *Indigofera spicata* Forssk. Journal of Medicinal Plants Research. Vol. 15(9), pp. 390-400, September, 2021; DOI: 10.5897/JMPR2021.7134; Article Number: 8675C7A67688; ISSN 1996-0875; Copyright © 2021 Author(s) retain the copyright of this article; <http://www.academicjournals.org/JMPR>.
60. Balogun, M.M., Shamim S., Khan, K.M., Mahdavi, M., Salar, U., Oladosu, I.A., Mohammadi-Khanaposhtani, M., Faramarzi, M.A., **Moronkola, D.O.**, Taha, M., Rahim, F., and Perveen, S. (2022). Synthesis and Evaluation of 6-Ethoxy-2-mercaptobenzothiazole Scaffolds as Potential α -Glucosidase Inhibitors. *ChemistrySelect* 7(26), DOI: [10.1002/slct.202200855](https://doi.org/10.1002/slct.202200855) ; <https://doi.org/10.1002/slct.202200855>
61. Ezeagwu, I.I., Yisamah, V.O., Ajiboye, C.O., Sebiotimo, A.N., **Moronkola, D.O.**, Oladimeji, A.O. and Odewo, S.A. (2023). GC-MS analyses of four essential oils with phytochemical screening and antioxidant potential of two methanolic extracts of *Rytigyniaumbellulata* (Rubiaceae). Journal of Essential Oil and Plant Composition JEOPC-2023-049R1. Current Science Publishing (In press).

VIII. Major Conferences Attended with Papers Read:

1. **Moronkola D.O.**, Kasali A.A. and Ekundayo O. (2004): Constituents of the Leaf Volatile Oil of *Spondiasmombin* Linn and the Comparison between its Fruit and Leaf Essential Oils. 40th Annual Conference of Science Association of Nigeria (SAN). Theme: Science in Nigeria. At University of Ibadan (21st to 25th March, 2004)
2. **Moronkola D.O.**, Aiyelaagbe O.O. and Ekundayo O. (2004). Syntheses of Eight Fragrant Terpenoids (Ionone derivatives) with Dienone Moiety via the Aldol condensation of Citral and Some Ketones. 40th Annual Conference of Science Association of Nigeria (SAN). Theme: Science in Nigeria. At University of Ibadan (21st to 25th March, 2004)
3. **Moronkola D.O.**, Kasali A.A., Ogubinu O.A. and Ekundayo O. (2005): Composition of the leaf essential oil of *Anacardium occidentale* Linn. 28th International Conference of the Chemical Society of Nigeria (CSN) (Yerwa-2005). Theme: Chemistry and the Nigerian Economy. Venue: Maiduguri International Hotel, Maiduguri, Nigeria. (26th to 30th September 2005).
4. **Moronkola D.O.**, Aiyelaagbe O.O. and Ekundayo O. (2006): Characterizations in studying the effect of Acid reagents on the rearrangement reaction of Camphoroxime producing different ratios of the α : β - Campholene Nitriles. 29th Annual Conference of the Chemical Society of Nigeria (CSN) EKO CHEM 2006, Lagos Airport Hotel, Ikeja, Nigeria. (25th to 29th September 2006).
5. **Moronkola D.O.**, Ogunwande I.A; Oyewole I.O; Can Baser K.H; Ozek T. and Ozek G. Studies on the volatile oils of *Momordica charantia* L. (Cuc urbitaceae) and

- Phyllanthus amarus*Sch. Et Thonn. (Euphorbiaceae). IOCD-ISDNP [International Organization for Chemistry in Development and International Society for the Development of Natural Products] 2008 Kasane Botswana [25th-29th Feb., 2008]. Joint International Conference/ Symposium on Natural Products.
6. **Moronkola D.O**,Ogunwande I.A; Oyewole I.O; Can Baser K.H; Ozek T. and Ozek G. Essential oil composition of *Gmelina arborea* Roxb., Verbenaceae, from Nigeria. IOCD-ISDNP [International Organization for Chemistry in Development and International Society for the Development of Natural Products] 2008 KASANE BOTSWANA [25th-29th Feb., 2008]. Joint International Conference/ Symposium on Natural Products.
 7. **Moronkola D.O**, Oladosu I.A., Ogunwande I.A. and Olubomehin O. [2008]. Chemical Compositions and Comparison of the Aerial, Fruit and Root Essential Oil Samples from Nigerian *Laportea aestuans*(L.) Chew (Urticaceae). Chemical Society of Nigeria [Osun State] 1st International Conference: SourceChem July 27-29, 2008. 'The role of Chemistry in Industry, Environmental Health and National Development' Held at Obafemi Awolowo University, Ile-Ife, Nigeria
 8. **Moronkola D.O**, Oladosu I.A.and Ogunwande I.A. [2008].Chemical Compositions of Seven Essential Oil Samples from 3 Nigerian Acanthaceae: *Asystasiagangetica*(L), *Brillantaisiapatula*T.And. var and *Hypoestesphyllostachya*'Rosea' .ISEO 2008 39th International Symposium & Conference on Essential Oils. Held 7th-10th September, 2008 at the Congress Centre, Quedlinburg, Germany.
 9. **Moronkola D.O**, Atewolara- Odule O.C.and Olubomehin O.O. [2008]. Compositions of the Leaf and Stem Essential Oils from Nigerian *Hypoestesphyllostachya*'Rosea' P. Beau. [Acanthaceae]. DELTACHEM 2008: 31st Annual International Conference & Exhibition of the Chemical Society of Nigeria. Strategic Re-positioning of Chemistry for National Development. 22-26th September, 2008. Held at Petroleum Training Institute, Effurun-Warri, Delta State, Nigeria.
 10. The Research Continuum in Natural Products Drug Discovery. May 12-14, 2009, Abuja, Nigeria. Symposium sponsored by The Federal Ministry of Health, Nigeria; National Institute for Pharmaceutical Research and Development [NIPRD]; United States Department of Health and Human Services, National Institute of Allergy and Infectious Diseases [NIAID]. As Invited Participant.
 11. **Moronkola D.O**, Adedeji A.A.; Oyewole I.O.;Ogunwande I.A.; Oladosu, I.A. [2009]. Survey and Accounts of Anti-Malaria Ethno medicinal Herbs Used in South-Western Nigeria and Vector Repellant Activities of Their Volatile Oils. African Network for Drugs and Diagnostics Innovation [ANDI], 2nd Stakeholders Meeting & Conference. 4th to 7th October, 2009, Medical Research Council [MRC], Cape Town, South Africa. Sponsored by WHO/ TDR; MRC- South Africa; Science and Technology, Rep. of South Africa; EU Commission.

12. **Moronkola D.O**, Ogukwe C.E. and Awokoya K.N. [2010]. Chemical composition of leaf and stem essential oils of *Calotropis procera* Ait R.Br (Asclepiadaceae). 33rd Annual Conference of the Chemical Society of Nigeria (CSN) OGUN 2010, Ogun State Cultural Centre, Kuto, Abeokuta. (20th to 24th September 2010).
13. 14th UNAAB Summer Course & Conference in Biotechnology: Polymerase Chain Reaction and Protein Analytical Techniques and their Application. 4th-8th October, 2010. Biotechnology Centre, University of Agriculture, Abeokuta, Nigeria.
14. 59th GA (Gesellschaft fur Arzneipflanzen- und Naturstoff-Forschung.V), Society for Medicinal Plants and Natural Product Research Conference. Venue: Maritim Pine Beach Resort, Antalya Turkey, on 4 to 9 September, 2011. **Paper read:** Moronkola, D.O., Kunle, O.F., Oladosu, I.A. and Ogukwe, C.E. Paths to lead compounds in surveyed ethno-medicinal anti-malarial herbs: case study of *Lonchocarpus cyanescens* extracts and volatile oils.
15. 42nd International Symposium on Essential Oils (ISEO). Venue: Maritim Pine Beach Resort, Antalya Turkey, on 11 to 14 September, 2011. **Papers read.** (i) Moronkola, D.O., Adesanwo, J.K., Kunle O.F. and Ogukwe C.E. Essential oil composition of three compositae and one labiatae commonly utilized as rabbit feeds: an indication of preferences observed during consumption. (ii) Moronkola, D.O., Kunle, O.F., Oladosu, I.A. and Ogukwe C.E. Essential oil compositions of 22 volatile oils from 8 Nigerian herbs utilized as anti-malarial in ethno-medicine.
16. 5th Western Africa Network of Natural Products Research Scientists [WANNPRESS] Conference. Venue: MicCom Golf Hotels and Resort, Ibokun Road, Ada, Osun State, Nigeria, on 6 to 9 August 2012. Theme: Tackling non-infectious diseases with medicinal plants and natural products. **Paper read:** Moronkola, D. O., Oladosu, I. A. and Adesanwo, J. K. Phytochemical analyses with bioactivity assessments-reliable paths to drugable metabolites- Case Study of *Lonchocarpus cyanescens*.
17. International Conference on Scientific Research and Innovation. Faculty of Science, University of Ibadan, Ibadan, Nigeria. International Conference on Science and Sustainable Development In Nigeria. Scientific research and sustainable development in Nigeria. 13th – 17th May, 2013. **Paper read:** Moronkola, D.O. On our paths to lead compounds: Studies and our findings in medicinal and natural product chemistry.
18. Biotechnology Training Program for twenty (20) days, at BioScience Center, IITA, Ibadan. Nigeria. From 02/04/2013 to 05/05/2013. Molecular biology trainings with following objectives:
 - Develop efficient and appropriate genomic DNA isolation techniques
 - Establish efficient and accurate genomic DNA fingerprinting techniques
 - Apply appropriate statistical analytical methods for genomic data generated
 - Interpretation of genomic DNA isolation and DNA fingerprinting results.

19. 2nd International Conference on Scientific Research and Innovation. Venue: Lakeside Lecture Theatre Faculty of Science, University of Ibadan, Ibadan, Nigeria, on 16 to 20 March 2015. Theme: Scientific Research and Innovation in Nigeria. **Papers read:** (i) Moronkola, D.O., Aboaba, S.A. and Choudhary, I.M. (2015). Essential Oil Compositions of Leaf, Flower, Root, Stem and Fruit of *Ruellia tuberosa* L. (Acanthaceae) from Nigeria. (ii) Moronkola, D.O., Olaoluwa, O.O. and Kunle, O.F. Essential Oils of Leaf, Stem-bark and Root of *Morinda lucida*.
20. April 2016 Organic Division Midlands regional symposium, held at University of Birmingham, United Kingdom. **Paper read:** (i) Moronkola, D.O.: Some of Our Phytochemical and Essential Oils' Studies on Nigerian Medicinal Plants.
21. Participant in specialist training course on 'Selective Isolation of Novel Actinobacteria from Atacama Desert Soils' given by microbiologists Professor Michael Goodfellow and Dr ImenNouioui, University of Newcastle, UK. Special course on 'Selective Strain Isolation Methods, Methods for Extracting gDNA and Sequencing 16S DNA for Species Genotyping'. March 12 to 16, 2018. Marine Biodiscovery Centre (MBC), Meston Building, Aberdeen AB24 3UE, Scotland, United Kingdom.
22. Attendance and participation at following: FSC, UI conferences (2021 & 2022); SAN conference (2021); CSN (2022); ETC.
23. Recent attendance and full participation at the 2nd out of two meetings per year of the Organic Chemistry Community Council (OCCC) of RSC (Royal Society of Chemistry), as an elected member of OCCC, held on 11 October 2023 at Burlington House, Piccadilly, London, W1J 0BA.UK, where I utilized RSC travel grant.

IX Additional Details

1. Member, Children's Choir and an active sunbeam. At 1st Baptist Church, Ijaiye, Abeokuta. Nigeria 1970 – 1975.
2. Best pupil in mathematics, 1975; Baptist Girls' Nursery/ Primary School, Idi-Aba, Abeokuta.
3. Completed GA (Girls' Auxilliary) steps 1975 – 1980. Also member of School choir; Baptist Girls' High School, Osogbo Nigeria.
4. President, Literary and Debating Society, 1979-1980, Baptist Girls' High School, Osogbo.
5. Church Keyboardist / Organist 1985 – 1990. At Oluponna 1st Baptist Church.
6. Member of School Choir, and Chapel Prefect 1981 – 1982. Baptist High School, Ede.
7. Guitarist and member, Egbe Baptist Church, Kwara State. During NYSC at Egbe TC. Kwara-State.
8. Church Organist Trinity Baptist Church, Aawe. 1990 – 1996.
9. Church Organist Shallom Baptist Church, Orogun, Ibadan 2000 to date.
10. Liason officer and adviser, students' chemical society of Nigeria (SCSN), Chemistry Department, University of Ibadan, Nigeria. 2018 to date.

11. Active elected member of OCCC (Organic Chemistry Community Council). 2021 to date

Referees

1.Prof.Peju Ayelagbe,

Dept.of Chemistry,University of Ibadan

2.Prof.Patricia Onocha,

Dept.of Chemistry,University of Ibadan

3.Prof.Segun Gbolagade Jonathan,

Dept.of Microbiology,University of Ibadan.

____SGD____

Prof Dorcas O. Moronkola