

CURRICULUM VITAE



BIO-DATA

Full Name: Nwankwo, Nicodemus Emeka
Place and Date of Birth: Isuofia, 8th January, 1975
Nationality: Nigerian
State of Origin & L.G.A.: Anambra State, Aguata Local Government Area
Permanent Home Address: No 14 Amobi Street, Onuiyi, Nsukka
Present Postal Address: Natural Science Unit, School of General Studies, University of Nigeria, Nsukka
GSM Number: 08060428976
E-Mail Addresses: nicodemus.nwankwo@unn.edu.ng and nicemmy2000@yahoo.com,
Marital Status: Married

EDUCATION WITH CERTIFICATES AND DEGREES

2010-2015

University of Nigeria, Nsukka

- Master of Science (M.Sc)/Doctorate (PhD) Degree in Biochemistry (Pharmacological Biochemistry)
- **Project:** Anti-malaria properties of *Picralima nitida* seed extract
- **Core Courses:** Advanced General Biochemistry, Advances in Molecular Biology, Seminar in Medical Biochemistry, Current Contents in Enzymology, Pharmacological Biochemistry and Advanced Instrumentation.

2004-2006

University of Nigeria, Nsukka

- Master of Science (M.Sc) in Pharmaceutical Chemistry (Medicinal Chemistry)
- **Project:** Phytochemical and Antimicrobial Studies on Leaves of *Loranthus micranthus* (Linn)
- **Core Courses:** Advanced Organic Chemistry, Chemistry of Natural Products, Medicinal Chemistry, Modern Analytical Techniques and Research Techniques

1997-2001

Enugu State University of Science and Technology

- **Bachelor of Science (B.Sc)** in Biochemistry
- **Project:** Determination of Amino acid and Protein Contents of *Mucuna pruriens*

- 1988-1993** **St. Dominic Savio Seminary, Akpu/St. John Bosco Seminary, Isuaniocha**
- West African Secondary School Certificate Examination (WASSCE)
- 1982-1987** **Amorji Primary School Umueze, Isuofia**
- First School Leaving Certificate (FSLC)

PROFESSIONAL EXPERIENCE

- 2018-till date** **Lecturer I**
- Natural Science Unit/Dept of Biochemistry, University of Nigeria, Nsukka
- 2017-2018** **Lecturer I**
- Department of Biochemistry, College of Natural and Applied Sciences, Renaissance University, Ugbawka, Enugu
- 2016-2017** **Lecturer II**
- Department of Biochemistry, College of Natural and Applied Sciences, Renaissance University, Ugbawka, Enugu
- 2010-2016** **Biology Teacher**
- Shalom Academy, Nsukka
- 2008-2010** **Part-time Lecturer**
- Department of Science Laboratory Technology, University of Nigeria, Nsukka

ADMINISTRATIVE EXPERIENCE

- | Post | Date |
|--|----------------|
| 1. Coordinator - Sandwich Program, Natural Science Unit, School of General Studies, UNN | 2019-till date |

COMMITTEES

- | | |
|---|----------------|
| 1. Timetable Committee Chairman , Natural Science Unit, School of General Studies, UNN | 2021-till date |
| 2. Member of timetable committee, Faculty of Biological Sciences | 2021-till date |

JOURNAL PUBLICATIONS

- Nwankwo, N.E.**, Nwiloh, B.I. and Joshua, P.E. (2021). Free Radical Scavenging Effect of Aqueous Extract of Salacia nitida Root Bark against Alcohol-Induced Hepatic Stress in Wistar Rats. *Tropical Journal of Natural Product Research* 5 (1): 205-210. Available online at <https://www.tjnpr.org> (SCOPUS)
- Enechi, O.C., Okeke, E.S., Nkwoemeka, N.E., **Nwankwo, N.E.**, Agogbua, I. and Ebere, B.M. (2020). Evaluation of the potential mechanisms of anti-inflammatory activities of *Fagara*

zanthoxyloides Lam. leaf extract in Wistar rats. *Tropical Journal of Natural Product Research* 4(10):806-811. Available online at <https://www.tjnpr.org> (SCOPUS)

3. Enechi, O.C., Okeke, E.S., **Nwankwo, N.E.**, Nweze, J.E., Obilor, C.P., Okoye, C.I. and Awoh, O.E. (2020). Membrane stabilization, albumin denaturation, protease inhibition, and antioxidant activity as possible mechanisms for the anti-inflammatory effects of flavonoid-rich extract of *Peltophorum pterocarpum* (DC.) K. Heyne (FREPP) Stem Bark. *Tropical Journal of Natural Product Research* 4(10):812-816. Available online at <https://www.tjnpr.org> (SCOPUS)
4. Eze, J.C., Okafor, F., **Nwankwo, N.E.**, Okeke, E.S. and Onwudiwe, N.N. (2020). Schistosomiasis prevention option: toxicological evaluation of *Vernonia amygdalina* on the tissues of *Bulinus truncatus* at different pH conditions. *Heliyon* 6 (2020) e04796. Available at <https://authors.elsevier.com/sd/article/S240584402031639X> (SCImago)
5. Ugwu, J.I., Ejiofor, N.C., Ezeagu, I.E., Okorie, C.P. and **Nwankwo, N.E.** (2020). Dietary Intake and Micronutrient Status of School Children in Enugu-South L.G.A., Enugu State, Nigeria. *Asian Food Science Journal* 15(1): 44-56. Available online at <http://www.journalafsj.com/index.php/AFSJ/issue/view/4583>
6. Ogugua, V.N., Okeke, E.S., Anaduaka, E.G., Ugwu, O.J., **Nwankwo, N.E.**, Okenwa, E.J., Ihim, C.A. and Enwerem, U. (2019). Antioxidant effect of human urine in alloxan-induced diabetic rats. *PharmacologyOnline Archive* 2: 139-151. Available online at <http://pharmacologyonline.silae.it> (SCImago)
7. Okeke, E.S., Enechi, O.C., Nwankwo, N.E. and Nwodo, O.F.C. (2019). Evaluation of the phytochemical constituents and anti-inflammatory potential of *Fagara zanthoxyloides* root-bark using in vivo and in vitro models. *PharmacologyOnline Archive* 2: 212-224. Available online at <http://pharmacologyonline.silae.it> (SCImago)
8. Enechi, O.C., Okeke, E.S., **Nwankwo, N.E.**, Abonyi, C.U., Ugwu, L., Eze, P., Agbo, N.C. and Enwerem U.C. (2019). Phytochemical screening and evaluation of the anti-inflammatory effect of flavonoid-rich seed extract of *Buchholzia coriacea* in rats. *Indo American Journal of Pharmaceutical Sciences* 06 (08): 15525-15534. Available online at www.eijppr.com.
9. Enechi, O.C., Okeke, E.S., Abonyi, U.C., **Nwankwo, N.E.**, Ndimele, U.J. and Benneth, M. E. (2019). Evaluation of *in vitro* anti-inflammatory and antioxidant potentials of methanol leaf extract of *Fagara zanthoxyloides*. *Indo American Journal of Pharmaceutical Sciences* 06 (08): 14365-14371. Available online at www.eijppr.com.
10. Egbujor, M.C., Okoro, U.C. , Okafor, S.N. and **Nwankwo, N.E.** (2019). Synthesis, characterization and *in silico* studies of novel alkanoylated 4-methylphenyl sulphonamoyl carboxylic acids as potential antimicrobial and antioxidant agents. *International Journal of Pharmaceutical and Phytopharmacological Research* 9 (3): 89-97. Available online at www.eijppr.com. (Tomson Reuters)

11. **Nwankwo, N.E.**, Egbuonu, A.C.C., Aliuba, P.O., and Okeke, E.S. (2019). Antifungal properties of ethanol extract of *vernonia amygdalina* stem and the effect on electrolyte status in normal and monosodium glutamate-intoxicated rats. *Journal of Pharmaceutical Development and Industrial Pharmacy* 1 (2): 15-20. Available online at <http://www.jpdp.com>
12. **Nwankwo, N.E.**, Egbuonu, A.C.C., Joshua, P.E., Okeke, E.S., Cosmas S., Arazu A. V and Nwodo, O.F.C. (2019). Inhibitory effect of ethanol *Picralima nitida* Seed extract on malaria parasite. *Indo American Journal of Pharmaceutical Sciences* 06 (07): 13491-13496. Available online at <http://www.iajps.com>
13. Egbujor, M.C., Okoro, U.C., Okafor, S. and **Nwankwo, N.E.** (2019). Design, synthesis and molecular docking of novel serine-based sulphonamide bioactive compounds as potential antioxidant and antimicrobial agents. *Indo American Journal of Pharmaceutical Sciences* 06 (06): 12232-12240. Available online at <http://www.iajps.com>
14. Egbujor, M.C., Ike, S.C., Anieze, E.O., Kanayochukwu, U.L., **Nwankwo, N.E.**, Chidebelu, I.C. and Okenwa-Ani, C.G. (2019). A comparative study of the phytochemical activities of some Nigerian indigenous kola nuts; *Kola acuminata* (Igbo kola), *Kola vera* (Hausa kola nut) and *Garcinia kola* (bitter kola). *Asian Journal of Applied Chemistry Research* 3 (2): 1-6. Available online at <http://www.journalajacr.com/index.php/AJACR/article/view/30090>.
15. Nduka, F.O., Ubani, S.C., Okpasi, V.U., **Nwankwo, N.E.**, Gometi, S.A., Nwaso, B.C. and Nwodo, O.F.C. (2018). Utilization of banana, pineapple and watermelon wastes substrate: As consortiums to remediating cyanide polluted soil. *American Journal of Environmental Sciences*. Available online at <http://thescipub.com/pdf/10.3844/ofsp.11929>. (SCImago)
16. **Nwankwo, N.E.**, Nwodo, F.O.C. and Joshua, P.E. (2017). Free Radical Scavenging Property of *Picralima nitida* Seed Extract on Malaria-Induced Albino Mice, *American Journal of Life Sciences*, 5, (5): 125-133. doi: 10.11648/j.ajls.20170505.12. Available online at <http://www.sciencepublishinggroup.com/journal/archive?journalid=118&issueid=1180505>
17. **Nwankwo, N.E.**, Egbuonu, A.C.C., Nduka, F.O. and Nwodo, O.F.C. (2017). Effect of seed extract of *Picralima nitida* on haematological parameters of malaria-infected albino mice and its interference with the serum electrolyte levels. *Ife Journal of Science* 19(2): 379-388. Available online at <https://dx.doi.org/10.4314/ijls.v19i2.18>
18. Ukachukwu, U.G. Ozougwu, V.E.O and **Nwankwo, N.E.** (2017). A comparative study on the total cholesterol, triacylglycerides and lipid concentrations of quail and chicken eggs. *International Journal of Research in Pharmacy and Biosciences* 4(10):11-16. Available online at <http://ijrpb.org/papers/v4-i10/2.pdf>
19. **Nwankwo, N.E.**, Nwodo, O.F.C., Ekwueme, F.N., Chime, J.O. and Amalunweze, A.E. (2015). *In vitro* Study on the Effect of Treatment with *Picralima nitida* Seed Extract on Haemozoin Formation in *Plasmodium berghei* Infected Mice. *International Journal of*

Scientific and Engineering Research, 6 (6): 1000-1008. Available online at <http://www.ijser.org>.

20. **Nwankwo, N.E.**, Nwodo, O.F.C., Amalunweze, A.E., Agbo, K.U. and Abugu, S.C. (2015). Liver and Kidney Function Tests and Histological Study on Malaria Parasite Infected Mice Administered with Seed Extract of *Picralima nitida*. *International Journal of Biochemistry Research and Review*, 8 (2): 1-14. Available online at <http://www.sciencedomain.org>.
21. Igwe, C.N., Okoro, U.C., Egba S.I., **Nwankwo, N.E.** and Anaduaka, E.G. (2015). The Activity of Synthesized N-heteroaryl Substituted Benzene Sulphonamides on the Liver and Kidney Marker Enzymes of *Plasmodium berghei* Infected Mice. *Journal of Pharmaceutical, Chemical and Biological Sciences*, 3(1):06-16. Available online at <http://www.jpCBS.info>. (SCImago)
22. **Nwankwo, N.E.**, Egbuonu, A.C., Chime, J.O. and Belonwu, E.O. (2013). Effects of Separation on the Phytochemical Properties and Antimicrobial Activity of Extracts and a Fraction of the African Mistletoe (*Loranthus micranthus* Linn) Leaves. *Journal of Natural Sciences Research*, 3 (9): 44–51. Available online at <http://www.iiste.org>.
23. **Nwankwo, N.E.** and Egbuonu, A.C. (2012). Phytochemical properties of some solvent fractions of petroleum ether extract of the African mistletoe *Loranthus micranthus* (Linn) leaves and their antimicrobial activity. *African Journal of Biotechnology*, 11(62):12595-12599. Available online at <http://www.academicjournals.org/AJB>. (SCImago)
24. **Nwankwo, N.E.** and Egbuonu, A.C. (2011). Phytochemical and antimicrobial activity of petroleum ether extract of the African Mistletoe (*Loranthus micranthus* Linn) leaves. *International Research Journal of Pharmacy and Pharmacology*, 1 (8): 211-214. Available online at <http://www.interestjournals.org/IRJPP>.

AUTHORSHIP OF BOOKS

1. Okafor, F.C., **Nwankwo, N.E.**, Okeke, E.S. and Eze, C.J. (2018). Phytotherapeutic and other uses of the plant genus *Sida L.* with observations on their other potencies. University of Nigeria Press Limited, Enugu. ISBN 978-978-8527-74-9. (In Press)

BOOK CHAPTERS

1. **Chapter One: Nwankwo, N.E.**, Okeke, S.E., Eze, C.J. and Okafor, F.C. (2018). Common Nigerian Medicinal Plants. University of Nigeria Press Limited, Enugu. ISBN 978-978-8527-74-9. (In Press).
2. **Chapter Five: Nwankwo, N.E. and Okeke, E.S. (2018). Ethno-medicinal uses of *Sida*.** University of Nigeria Press Limited, Enugu. ISBN 978-978-8527-74-9. (In Press).
3. **Chapter Six: Nwankwo, N.E. and Okafor, F.C. (2018). Pharmacological activities of selected *Sida* species.** University of Nigeria Press Limited, Enugu. ISBN 978-978-8527-74-9. (In Press).

4. **Chapter Seven:** Okeke, E. S. and **Nwankwo, N.E.** (2018). Pharmacological basis and mechanisms of action of compounds from *Sida*. University of Nigeria Press Limited, Enugu. ISBN 978-978-8527- 74-9. (In Press).
5. **Chapter Eight:** **Nwankwo, N.E.** (2018). Side effects of *Sida*. University of Nigeria Press Limited, Enugu. ISBN 978-978-8527-74-9. (In Press).
6. **Chapter Nine:** **Nwankwo, N.E.** Eze, J.C. and Okafor, F.C. (2018). Potential uses of *Sida* plants. University of Nigeria Press Limited, Enugu. ISBN 978-978-8527-74-9. (In Press).

CONFERENCES/WORKSHOPS/SYMPOSIA

1. Participated in the 2-day National Symposium on Nuclear Research and Development, hosted UNN, from 1st-2nd September, 2008.
2. Participated in the 31st Annual Conference of Nigerian Society of Biochemistry and Molecular Biology (NSBMB) held at UNN, from 31st October-3rd November, 2011.
3. Participated in the 22nd Annual Conference/Workshop of Foundation for African Development through International Biotechnology (FADIB) held at ESUT, from 8th-10th November, 2016.
4. Participated in the Molecular Biology and Bioinformatics Workshop held at UNN from 7th-11th May, 2018.
5. Participated in the 4th Chemical Society of Nigeria (CSN) South East Zone and 17th Coalcitychem (Enugu State Chapter) Held at Centre for Environmental Management and Control (CEMAC), UNEC, from 21st-23rd March, 2019.
6. Participated in the 2019 Biennial School of General Studies Conference held at UNN from 6th-9th May, 2019.
7. Participated in the 3rd African Conference on Application of Nanotechnology to Energy, Environment, Agriculture and Health held at UNN, from 15th-18th July, 2018.
8. Participated in the 1st International Conference on Biologics Research and Development held at UNN, from 21st-25th July, 2019.
9. Participated in the 2020 Conference by Organic Synthesis and Medicinal Chemistry (OSMC) Research Group, University of Nigeria, Nsukka held at UNN, from 10th-12th August, 2020.
10. Participated in the 18th National Scientific Conference of Nigerian Association of Pharmacists in Academia (NAPA) held at UNN, from 24th-26th August, 2020.
11. Participated in the 1st International Electronic Conference of SCIFORUM on Antioxidants in Health and Diseases, from 01-15 December, 2020. Available Online at <https://doi.org/10.3390/CAHD2020-08900>.
12. Participated in the 2021 Biennial School of General Studies Conference held at UNN from 6-7th May, 2021.
13. Participated in the 7th International Electronic Conference of SCIFORM on Medicinal Chemistry, from 1st-30th November, 2021. Available Online at <https://doi.org/10.3390/ECMC2021-11492>.

CONFERENCE PAPERS/ABSTRACTS

1. **Nwankwo, N.E.** and Egbuonu, A.C. Cemaluk (2011). Phytochemical and antimicrobial activity of some extracts of the African mistletoe (*Loranthus micranthus* Linn) leaves. *A paper presented at the 31st Annual Conference of Nigerian Society of Biochemistry and Molecular Biology (NSBMB) held at UNN.*

2. **Nwankwo, N.E.**, Nwodo, O.F.C. and Joshua, P.E. (2016). Studies on the antioxidant properties of ethanol seed extract of *Picralima nitida* on malaria-infected albino mice. *A paper presented at the 22nd Annual Conference/Workshop of Foundation for African Development through International Biotechnology (FADIB) held at ESUT.*
3. **Nwankwo, N.E.**, Okeke, E.S. and Nwodo, O.F.C. (2019). Inhibitory effect of ethanol *Picralima nitida* seed extract on malaria parasite. *A paper presented at the 2019 Biennial School of General Studies Conference held at UNN.*
4. Okeke, E.S., Enechi, O.C., **Nwankwo, N.E.**, Nwodo, O.F.C. and Nkwoemeka, N.E. (2019). Evaluation of the Anti-inflammatory potential of *Fagara zanthoxyloides* Root Bark using *in vivo* and *in vitro* models. *A paper presented at the 2019 Biennial School of General Studies Conference held at UNN.*
5. Nwankwo, N.E., Egbuonu, A.C.C., and Okeke, E.S. (2019). Antifungal Properties of Ethanol Extract of *Vernonia amygdalina* Stem and the Effect on Electrolyte Status in Normal and Monosodium Glutamate-Intoxicated Rats. *A paper presented at the 2019 1st International Conference on Biologics Research and Development held at UNN.*
6. Enechi, O.C., Okeke, E.S. and **Nwankwo, N.E.** (2020). Evaluation of the Potential Mechanisms of Anti-inflammatory Activity of *Fagara zanthoxyloides* Leaf Extract in Wistar Rats. *A paper presented at the 2020 Conference by Organic Synthesis and Medicinal Chemistry (OSMC) Research Group, University of Nigeria, Nsukka held at UNN.*
7. **Nwankwo, N. E.**, Ukachukwu, U.G. and Ozougwu, V.E.O. (2020). A comparative study on the total cholesterol, triacylglycerol and lipid concentrations of quail and chicken eggs. *A paper presented at the 18th National Scientific Conference of Nigerian Association of Pharmacists in Academia (NAPA) held at UNN.*
8. Okeke, E.S., Enechi, O.C., **Nwankwo, N.E.**, and Nkwoemeka, N.E. (2020). Therapeutic Evaluation of the potential mechanisms of Anti-inflammatory Activities of *Fagara zanthoxyloides* Leave Extract in Wistar Rats. *A paper presented at the 1st International Electronic Conference of SCIFORUM on Antioxidants in Health and Diseases from 01-15 December; Online.*
9. **Nwankwo, N.E.**, Okeke, E.S., Nworah, F.N. and Ezeako, E.C. (2021). Phytochemical screening and *in vitro* evaluation of anti-inflammatory and antioxidant potentials of leaf extracts of *Sida linifolia* L. (Malvaceae). *A paper presented at the 7th International Electronic Conference of SCIFORUM on Medicinal Chemistry from 01-15 December; Online.*

MEMBERSHIP OF PROFESSIONAL BODIES

1. Nigerian Society of Biochemistry and Molecular Biology (NSBMB)
2. Nigerian Society for Experimental Biology (NISEB)
3. Global Harmonization Initiative (GHI)
4. International Society for Infectious Diseases (ISID)
5. Royal Society of Biology (RSB)
6. International Chemical Biology Society (ICBS)
7. Nigerian Bioinformatics and Genomics Network (NBGN)

RESEARCH PUBLICATION PAPERS REVIEWED

1. Ethnomedicinal survey on the uses of mistletoe in South-western Nigeria. **European Journal of Medicinal Plants.**

2. Antimicrobial activities of *Phragmanthera indica* (Schum) Balle, a species of mistletoe growing on two host plants against selected pathogenic microbes. **Annual Research & Review in Biology.**
3. Antimicrobial activity of *Bambusa arundinacea* seeds. **British Journal of Pharmaceutical Research.**
4. Antimicrobial activity of garlic extract on organisms isolated from tomato rot. **Journal of Advances in Microbiology.**
5. STAT 3 mutations, Giardia infection and the IL-17 pathway. **International Journal of Tropical Disease and Health.**
6. Physico-chemical and toxicological studies of *Xylopi aethiopica* leaves. **African Journal of Pure and Applied Chemistry.**
7. Ethno medicinal and Conservation Status of plant species in Tehsil Takht Bhai, District Mardan, Pakistan. **Annual Research & Review in Biology.**
8. Changes in White Blood Cells Differential associated with adult Malaria-infected Patients. **Journal of Advances in Medical and Pharmaceutical Sciences.**
9. Nigeria and the selenium micronutrient: A review. **Journal of Bioscience and Biotechnology Discovery.**
10. Potential methods for controlling Mistletoes (*Tapinanthus globiferus*) (A. Rich.) van Tieghan) parasitizing lime and Guava in Central Sudan. **African Journal of Environmental Science and Technology.**
11. Phytochemistry and mode of action of some tropical spices in the management of type-2 diabetes and hypertension. **African Journal of Pharmacy and Pharmacology.**
12. Antimicrobial potential and chemical constituent of *Mikania micrantha* H. B. K. **African Journal of Microbiology Research.**
13. Proximate and phytochemical analysis of different plant species in Tehsil Takht-E-Nasrati, Pakistan. **African Journal of Biotechnology.**
14. Extraction and preliminary structural elucidation of alkaloids, flavonoids and saponins in leaves of *Starchytarphetar cayennensis*. **Medicinal and Aromatic Plant Research Journal.**
15. Antidenaturation and antioxidative properties of phytochemical components from *Spondias mombin*. **African Journal of Biochemistry Research.**
16. Action of synthetic and plant derived molluscicides on the phospholipids and lipid peroxidation levels in the ovotestis of snail *L. acuminata*. **Biochemistry and Biotechnology Research.**
17. *In vivo* prophylactic evaluation of the antiplasmodial property of ethanol and hot water extracts of milky mushroom (*Calocybe indica*). **Journal of Advances in Microbiology.**

RESEARCH INTERESTS

My research interests focus on:

- Research into Pathogenesis and Treatment/Cure of such through the use of Natural or Synthetic Drugs
- Bioinformatics and Molecular Biology as applied to solving the problem of resistant infections
- Application of nanotechnology in natural sciences especially in drug delivery system and other systems
- Cancer therapy, especially at molecular level

EXTRA-CURRICULAR ACTIVITIES

Composing and teaching of songs, Reading Good Books and Operating Computers

REFEREES

1. Associate Professor E.J. Agwu

Natural Science Unit/Department of Zoology and Environmental Biology

University of Nigeria, Nsukka.

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2. Dr. N.E. Nkwoemeka

Natural Science Unit/Department of Microbiology

University of Nigeria, Nsukka.

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3. Dr. T.C. Ezike

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