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Professor Charles Okechukwu Esimone is professor of Biopharmaceutics and Pharmaceutical Microbiology in the Department of Pharmaceutical Microbiology and Biotechnology, Faculty of Pharmaceutical Sciences, Nnamdi Azikiwe University and Currently the Dean of the Faculty. He is an adept researcher with well over 100 publications co-authored with workers from across the globe especially from Germany and United States. He speaks English, French, German and Igbo languages fluently. He is recipient of several awards which includes the prestigious Alexander von Humboldt Fellowship and the 2009 Bright Contest Award for the Best African Innovative Research of the African Network for Drugs and Diagnostics Innovation. In 2007, He was sponsored by his Institution to the University of Pittsburgh, USA for the Development of Malaria Vaccine. He has been involved in several conferences, seminars and workshops where he has served either as a resource person or participant. He has successfully supervised several postgraduate works. He is a reviewer to several journals both national and international. His current research interests include development of biotechnological products such as vaccines for tropical diseases. He is a member of several professional bodies including the Society for Medicinal Plant Research, Germany, International Society for Anti-infective Pharmacology, Netherlands, American Society for Cell Biology and Pan African Medical Mycology Society, South Africa..

1. CURRENT RESEARCH INTERESTS:

- Screening of Lichens, Ferns, indigenous Nigerian Herbs and Spices for antimicrobial (antifungal, antibacterial and antiviral) activity.
- Evaluation of nosocomial and community-acquired resistance pattern amongst bacteria
- Quality control of Pharmaceutical Dosage forms marketed in Nigeria.
- Bioavailability studies of various antibiotic brands marketed in Nigeria
- *In vitro* and *in vivo* evaluations of herb-drug, drug-drug and food-drug interaction between antibiotics and some commonly co-administered herbs, drugs or food.

- Evaluation of the microbial purity of bottled water and non-sterile Pharmaceutical /herbal medicinal products marketed in Nigeria.
- Study of synergy between various antibiotic combinations.
- Toxicological evaluations of indigenous medicinal plants.
- Development of biotechnological products such as vaccines for tropical diseases

2. CONFERENCES, SEMINARS AND WORKSHOPS:

- i **Esimone CO**, Valderrama A, Onah DN, Steitz J, Herrera S and Gambotto A (2009). Development and Preclinical Evaluation of Ad5-based *Plasmodium vivax* Vaccines derived from the Blood Stage Merozoite Surface Protein 1 (MSP-1). 12th Annual conference on Vaccine Research, Baltimore, Maryland, April 27-29, 2009.
- ii **Esimone CO**, Eck G, Duong TN, Überla K and Proksch P (2008). Recombinant Viral Vectors as Suitable Surrogates for Antiviral Screening Studies. 2nd World Conference on Magic Bullets (Ehrlich II), Nürnberg, Germany, October 3–5, 2008.
- iii Nworu CS, Akah PA, NWanegbo EC and **Esimone CO** (2008). Kolaviron, a Novel and Potentially Potent Vaccine Adjuvant. 11th Annual conference on Vaccine Research, Baltimore, Maryland, May 5-7, 2008.
- iv Onuigbo EB, Okore VC, Attama AA, Ngene A and **Esimone CO** (2008). Evaluation of a Cationic Liposome as Adjuvant for Newcastle Disease Vaccine. 11th Annual conference on Vaccine Research, Baltimore, Maryland, May 5-7, 2008.
- v **Esimone CO**, Nworu CS, Adikwu MU and Akah PA (2007). Rational Vaccine Design: The Challenges of Adenoviral Vectors. A paper presented at the international conference on the Bioinformatics of African Pathogens and Disease Vectors, May 28-June 2, 2007, International Center of Insect Physiology and Ecology (ICIPE), Nairobi, Kenya.
- vi **CO Esimone**, NC Obitte, ME Egege and AN Onuorah. Evaluation of Polysorbate-20 Based Niosomal Formulations of Salicylic Acid. A paper presented at the 7th Annual Scientific Conference of the Nigerian Association of Pharmacists in Academics (NAPA), ABU, Zaria, 19th-22nd July, 2006.
- vii ME Egege, EC Ibezim, **CO Esimone**, and KC Ugoeze. Comparative Study of the Antiseptic Properties of Some Commercial Medicated Soaps on Healthy Human Volunteers. A paper presented at the 7th Annual Scientific Conference of the Nigerian Association of Pharmacists in Academics (NAPA), ABU, Zaria, 19th-22nd July, 2006.
- viii **CO Esimone**, EC Ibezim and PO Oleghe. Gross Microbial Contamination of Herbal Medicinal Products (HMPs) Marketed in Mid Western Nigeria. A paper presented at the

- 7th Annual Scientific Conference of the Nigerian Association of Pharmacists in Academics (NAPA), ABU, Zaria, 19th-22nd July, 2006.
- ix **CO Esimone**, T Grunwald, S Kuate, B Tippler, P Proksch and K Überla. Broad spectrum antiviral fraction from the lichen *Ramalina farinacea*. Annual conference of the German Society for Virology, Hannover, Germany, March 16–19, 2005.
- x **CO Esimone**, T Grunwald, O wildner, G Nchinda, B Tippler, Proksch P and K Überla. *In vitro* pharmacodynamic evaluation of antiviral medicinal plants using a vector-based assay technique. World Conference on Magic Bullets , Nürnberg, Germany, September 9–11, 2004.
- xi MU Adikwu, KC Ofokansi and **CO Esimone**. *In vitro/in vivo* availability studies on some brands of fixed ratio sulphadoxine-pyrimethamine combinations marketed in Nigeria. Proceedings of 4th National Workshop on Quality Assurance in the 3rd Millenium (Biopharmaceutical Methods in Drug Quality Assurance, Ibadan, Nigeria, 20th-24th August, 2001.
- xii KC Ofokansi, MU Adikwu, and **CO Esimone**. Detection of Diethylcarbamazine Citrate, Moclobemide and Promethazine Hydrochloride on Thin-Layer Plates Using Chloranilic Acid as the Locating Reagent in Non-Aqueous Media. Proceedings of 4th National Workshop on Quality Assurance in the 3rd Millenium (Biopharmaceutical Methods in Drug Quality Assurance, Ibadan, Nigeria, 20th-24th August, 2001.
- xiii **SC Udem**, **CO Esimone**, OC Obinwa and PA Akah. Anti-inflammatory effects of extracts from the lichen *Ramalina farinacea*. Proceedings of the 38th Annual Congress of the Nigerian Veterinary Medical Association held in Topo, Badagary, Lagos State, Nigeria, 9th-13th October, 2001.
- xiv **CO Esimone**, MU Adikwu and AA Attama. Interaction Studies between Paluther^(R) and some Tetracycline congeners. 5th annual conference of the Nigerian Association of Academic Pharmacist. (NAAP), Kano, Nigeria. (November 1998).
- xv MU Adikwu and **CO Esimone**. Susceptibility of Tetracycline–and Ampicillin–resistant strains of *Staphylococcus aureus* and *Salmonella typhi* to bioactive column fractions from the lichen *Ramalina farinacea* (L) Ach. Royal Pharmaceutical Society of Great Britain. (September, 1998)
- xvi **CO Esimone** and MU Adikwu. Antimicrobial properties of a fruticose Lichen, *Ramalina farinacea* (L) Ach. 25th annual conference of the West African Society for Pharmacology (WASP), Zaria, Nigeria. (October 1998)
- xvii **CO Esimone**. Drug Abuse and Health Issues. A paper presented at Bishop Shannahan Hospital, Nsukka, Nigeria (August 1998).
- xviii MU Adikwu, **CO Esimone**, and AA Attama. Assessing the impact of “comparative advantage reversal” by multinational companies on the Pharmaceutical industries in Nigeria. A paper presented at the 6th annual Workshop of the African Technology Policy studies (ATPS) Network, Banjul, The Gambia, 3rd – 6th November, 1999.

Papers vi – xvii were presented at the 26th Annual Conference of the West African Society for Pharmacology (WASP) held at the University of Nigeria Nsukka from October 20th - 23rd, 1999.

- xix SI Ezeabasili, **CO Esimone**, MU Adikwu, AA Attama and GB Okide. Preliminary Antimicrobial screening of extracts from the root of *Olox viridis*
- xx EC Ibezim, **CO Esimone** and OO.Ndu. Synergistic Co–trimoxazole/tetracycline combinations against a clinical isolate of *S. typhi*.
- xxi VC Okorie and **CO Esimone**. Combined activity of Metronidazole and some antibiotics against *Escherichia coli* and *Salmonella spp.*
- xxii MU Adikwu, **CO Esimone** and MN Nwodo. Antimicrobial properties of Leaf extracts of some indigenous plants.
- xxiii CS Nworu, **CO Esimone**, GB Okide, MI Okeke and CU Iroegbu. The use of checkerboard Assay, Decimal Assay for Additivity and Overlay Inoculum methods in evaluating interactions between ciprofloxacin and Ampicillin against *Staphylococcus aureus* (ATCC 11775) *in vitro*.
- xxiv **CO Esimone**, CO Okoli, CO Ezeugwu, MU Adikwu, MI Okeke and DB Uzuegbu. Comparative evaluation of the Antimicrobial properties of Tea extracts.
- xxv **CO Esimone**, MU Adikwu and OO Ndu. In vitro potentiation of Flouroquinolone Activity by Artemeter.
- xxvi MI Okeke, CU Iroegbu, AS Okoli, **CO Esimone**, EN Eze, EU Okosa and GC Ekwueme. Antimicrobial activity of extracts of *Citrus limmon*, *Cleistopholis patens*, *Landolphia owerrience* and *Securidaca longiedunculata*.
- xxvii GB Okide, MU Adikwu, **CO Esimone** and GA Awemu. Hematological Effects of methaholic extracts of *Azadirachta indica* leaves in Rats.
- xxviii GB Okide, MU Adikwu, **CO Esimone** and GA Awemu. Effects of crude Neem alcoholic extracts on Blood Chemistry of Rats.
- xxix GB Okide, WU Obonga and **CO Esimone**. Stability studies on a Syrup Formulation of *Cannabis sativa* Crude resins.
- xxx WU Obonga, PO Udeogaranya, C Iweala, **CO Esimone** and SC Udedi. Preliminary investigation into the antimicrobial and Analgesic properties of the methanolic extract of *premna quadrifolia*.
- xxxi OO Ndu, **CO Esimone**, JM Okonta and FC Ohiri. Hypoglycaemic effects of an aqueous extract of the African Mistletoe in Alloxan – Induced Diabetic Rabbits

3. **Reviewer for the Following International and National Journals :**

- Current Microbiology (Germany)
- Current Drug Delivery (Australia)

- Journal of Herbs and Spices (USA)
- Pharmaceutical Biology (USA)
- Scientific Research and Essays (Kenya)
- African Journal of Biotechnology (Kenya)
- African Journal of Infectious Diseases (Nigeria)
- J. Bioresearch and Biotechnology (Nigeria)
- Plant Product Research Journal (Nigeria)
- African Journal of Pharmaceutical research and Drug Development (Nigeria)
- Journal of Pharmaceutical and Allied Sciences (Nigeria)

PUBLICATION LIST OF DR. CHARLES OKECHUKWU ESIMONE.

A) BOOKS / CHAPTERS IN BOOKS

1. **Esimone CO** (2008). Herb-drug interactions: Emerging issues in the rational application of African ethnomedicine. In *Ethnopharmacology*. Peter A. Akah (Ed). Research Signpost, Kerala, India, pp 1-15.
2. **Esimone CO** and Kuate S (2007). Recombinant Retroviral Vectors as Model Probes for Antiviral Screening Studies. In *Genetic Vectors Research Focus*. Pablo S. Ruiz (Ed). Nova Science Publishers, New York, pp 177-203.
3. **Esimone CO** and Uzuegbu DB (2004) Evaluation of Antimicrobial Agents. In: *Laboratory Techniques in Pharmaceutics and Pharmaceutical Microbiology*. Vincent C. Okore (Ed). EL 'DEMAK Publishers, Enugu, pp97-112.
4. Okore VC, **Esimone CO** and Ofokansi KC (2004) Sterile Products. In: *Laboratory Techniques in Pharmaceutics and Pharmaceutical Microbiology*. Vincent C. Okore (Ed). EL 'DEMAK Publishers, Enugu, pp113-132.
5. Ibezim, E.C., Adikwu, M.U., Okore, V.C., Attama, A.A., **Esimone, C.O.**, Uzuegbu, D.B. and Ofokansi, K.C. (2001): *Techniques in Pharmaceutics*. Enugu. EL'Demak Publishers. 147 pp.

B) ARTICLES IN JOURNALS

1. **Esimone CO**, Grunwald T, Nworu CS, Kuate S, Proksch P and Überla K (2009). Broad Spectrum Antiviral Fractions from the Lichen *Ramalina farinacea* (L.) Ach. *Chemotherapy* **55**: 119-126.
2. **Esimone CO**, Okoye FB, Onah BU, Nworu CS and Omeje EO (2008). *In vitro* Bioequivalence Study of Nine Brands of Artesunate Tablets Marketed in Nigeria. *J. Vector Borne Dis* **45 (1)**: 60-65.
3. **Esimone CO**, Eck G, Duong TN, Überla K, Proksch P and Grunwald T (2008). Potential Anti-Respiratory Syncytial Virus Lead Compounds from *Aglaia* species. *Pharmazie* **63**: 768-773.
4. **Esimone CO**, Nworu CS and Jackson CL (2008). Cutaneous Wound Healing Activity of a Herbal Ointment containing the Leaf Extract of *Jatropha curcas* L. (Euphorbiaceae). *International Journal of Applied Research in Natural Products* **1 (4)**: 1-4.
5. Nworu CS, Akah PA, **Esimone CO**, Okoli CO, Okoye FBC (2008) Immunomodulatory activities of Kolaviron, a mixture of three related biflavonoids of *Garcinia kola* Heckel. *Immunopharmacology & Immunotoxicology* **30(2)**: 317-332.
6. Nworu CS, Akah PA and **Esimone CO** (2008). Modulatory effects of the seed extracts and fractions of *Garcinia kola* Heckel (Clusiaceae) on the immune responses. *NPAIJ* **4 (1)**: 46-54.

7. Odimegwu DC, Ibezim EC, **Esimone CO**, Nworu CS and Okoye FBC (2008). Wound healing and antibacterial activities of the extract of *Dissotis theifolia* (Melastomataceae) stem formulated in a simple ointment base. *Journal of Medicinal Plants Research* **2(1)**: 011-016.
8. Iroha IR, Adikwu MU, Amadi ES, Aibinu I and **Esimone CO** (2008). Characterisation of Extended Spectrum Beta- lactamase Producing *E. coli* from Secondary and Tertiary Hospitals in South Eastern Nigeria. *Research Journal of Microbiology* **3 (7)**: 514-519.
9. **Esimone CO**, Okoye FBC, Nworu CS and Agubata CO (2008). *In vitro* interaction between caffeine and some penicillin antibiotics against *Staphylococcus aureus*. *Tropical Journal of Pharmaceutical research* **7 (2)**: 870-875.
10. Ofokansi KC, Mbanefo AN, Ofokansi MN and **Esimone CO** (2008). Antibacterial Interaction of Crude Methanol Extract of *Garcinia kola* seed with Gatifloxacin. *Tropical Journal of Pharmaceutical Research* **7 (4)**: 1159-1165.
11. Iroha IR, Amadi ES, Orji JO and **Esimone CO** (2008). *In vitro* evaluation of the activity of colloidal silver concentrate against *Pseudomonas aeruginosa* isolated from postoperative wound infections. *Sci. Res. Essay* **3(5)**: 209-211.
12. Omeje EO, Okide GB, **Esimone CO** and Ajali U (2008). Kinetics of Autoxidation of an Oil Extract from *Terminalia catappa*. *Indian J. Pharm. Sci.* **70(2)**: 259-261.
13. Omeje EO, Osadebe PO, Okoye FBC, Agwu AK and **Esimone CO** (2008). Immunomodulation and Nigerian Mistletoe: Immunomodulatory activities of n-hexane and methanol extracts of *Loranthus micranthus* Linn. parasitic on *Parkia biglobosa*. *Asian Pac J Trop Med.* **1 (3)**: 48-54.
14. Ogbonna A, Chukwu KI, **Esimone CO**, Ogbonna BO and Ogbonna CIO (2008). Human bioavailability studies demonstrates interchangeability between brands of pefloxacin tablets marketed in Nigeria having wide price margins: *The Internet Journal of Third World Medicine.* **5 (2)**:
15. Iroha IR, Oji AE and **Esimone CO** (2008). Antimicrobial resistance pattern of plasmid-mediated extended-spectrum β -lactamase producing strains of *Escherichia coli*. *Sci. Res. Essay* **3(6)**: 215-218.
16. Iroha IR, **Esimone CO** and Amadi ES (2008). A comparative study on the prevalence of malaria parasite among HIV sero – positive and sero- negative individuals in Abakaliki Nigeria. *Afr. J. Clin. Exper. Microbiol.* **9(3)**: 136-141.
17. Iroha IR, Amadi ES, Adikwu MU and **Esimone CO** (2008). Detection of plasmid borne extended spectrum beta- lactamase enzymes in clinical isolates of *Escherichia coli* from a community general hospital. *Int J. Mol. Med. Adv Sci* **3 (Galley proof)**.
18. **Esimone CO**, Onuh PU, Obitte NC, Egege ME and Ugoeze KC (2008). *In vitro* Evaluation of Lozenges containing extracts of roots of *Zapoteca portoricensis* (Fam: Fabaceae). *J. Pharmacol. Toxicol* (**Galley proof**).

19. Iroha IR, Amadi ES, Orji JO, Ogabus AC, Oji AE and **Esimone CO** (2008). The interaction between gentamicin and fluoroquinolones against ESBL-producing clinical isolates of *Escherichia coli*. *Trends.Med. Res.* (**Galley proof**).
20. **Esimone CO**, Omeje EO, Okoye FBC, Obonga WO and Onah BU (2008). Evidence for the spectroscopic determination of artesunate in dosage forms. *J Vector Borne Dis* **45**: (**Galley proof**)
21. **Esimone CO** and Nworu CS (2007). Phytoadaptogens: an Overview. *Sci. Res. Essay* **2**: 29-36.
22. **Esimone CO**, Oleghe PO and Dibua UE and Ibezim EC (2007). Gross Microbial Contamination of Herbal Medicinal Products (HMPs) Marketed in Mid Western Nigeria. *Int J. Mol Med & Adv Sci* **3(2)**:87-92.
23. **Esimone CO**, Ofokansi KC, Adikwu MU, Ibezim EC, Abonyi DO, Odaibo GN and Olaleye DO (2007). *In vitro* evaluation of the antiviral activity of extracts from the lichen, *Parmelia perlata* (Ll.) ach. against three RNA viruses. *J Infect Developing Countries* **1(3)**:315-320.
24. Omeje EO, Adikwu MU, **Esimone CO**, Obonga WO, Okide GB, and Eberendu OC (2007). Characterisation of polysaccharides from the fern *Platyserium bifurcatum* with expected biological activity. *Journal of Phytomedicine and Therapeutics* **12**:66-75.
25. **Esimone CO**, Oleghe PO, Ibezim EC, Okeh CO and Iroha IR (2007). Susceptibility-Resistance Profile of Microorganisms Isolated from Herbal Medicine Products Sold in Nigeria. *African Journal of Biotechnology* **6(24)**: 2766-2775.
26. **Esimone CO**, Omobowajo OR, Sowemimo A A and Proksch P (2007). Single- Cycle Vector-Based Antiviral Screening Assays for High Throughput Evaluation of Potential Anti-HIV Medicinal Plants: A Pilot Study on some Nigerian Herbs. *Recent Progress in Medicinal Plant Research*. **19**: 49-60.
27. **Esimone CO**, Nworu CS and Udeogaranya PO (2007). Utilization of antimicrobial agents with and without prescription by out-patients in selected pharmacies in south-eastern Nigeria. *Pharm world Sci* **29 (6)**: 655-660.
28. **Esimone CO**, Nworu CS, Ekechukwu AC and Awemu AG (2007). Effects of phenylalanine and glycine on some toxic effects of chloramphenicol. *Sci. Res. Essays* **2(4)**: 105-111.
29. Obonga WO, Osadebe OP, **Esimone CO**, Ofoefule SI and Onunkwo GC (2007). Pharmacokinetics of Capsule Formulation of Crude Cannabis Resin in Rats. *Bio-Research* **5(1)**:
30. **Esimone CO**, Okoli CO and Ayogu CO (2007). *In vitro* studies on the interaction of tea with antimicrobial agents. *Int. J. Trop. Med.* **2(2)**: 63-67.
31. **Esimone CO**, Adikwu MU, Nworu CS, Okoye FBC and Odimegwu DC (2007). Adaptogenic potentials of *Camellia sinensis* leaves, *Garcinia kola* and *Kola nitida* seeds. *Sci. Res. Essays* **2(7)**:232-237.

32. Dibua UE, Awagu JO and **Esimone CO** (2007). Prevalence of intestinal parasitoses in the Nsukka community of South Eastern Nigeria. *Int. J. Trop. Med.* **2(2)**: 33-40.
33. Odimegwu DC, Ibezim EC, **Esimone CO** and Chah KF (2007). Antimicrobial and wound healing effect of methanol extract of *Dissotis theifolia* formulated as cream. Proceedings of Annual Conference of IRDI Research and Development Network, University of Port Harcourt, June 28-29, 2007, Vol 2(3):1-4.
34. Iroha IR, **Esimone CO**, Orji JO and Imomoh OO (2007). Antibacterial efficacy of colloidal silver alone and in combination with other antibiotics on isolates from wound infections. *Sci. Res. Essays* **2(8)**:338-341
35. Dibua UE, **Esimone CO** and Ndianefo PC (2007). Microbiological and physicochemical characterization of sachet water samples marketed in Nsukka campus of the University of Nigeria. *Bio-Research* **5 (1)**: 189-193.
36. Nworu CS, Akah PA, Okoli CO, **Esimone CO** and Okoye FBC (2007). The effects of methanolic seed extract of *Garcinia kola* on some specific and non-specific immune responses in mice. *International Journal of Pharmacology.* **3(4)**: 347-351.
37. **Esimone CO**, Ufondu CP and Onuigbo EB (2007). The wound healing effect of ointment formulations containing *Chromolaena odorata* on rats. *Bio-Research.* **5(1)**: 207-209.
38. **Esimone CO**, Nworu CS, Ekong US, Iroha IR and Okolin CS (2007). A case for the use of herbal extracts in oral hygiene: The efficacy of *Psidium guajava*-based mouthwash formulations. *Research Journal of Applied Sciences* **2(11)**: 1143-1147.
39. **Esimone CO**, Nworu CS, Adikwu MU, Odimegwu DC, Ezeugwu CO (2007). The effect of a new adaptogen, *Garcinia kola* seed, on the bioavailability of ofloxacin in humans, *Scientific Research and Essays* 2(11): 482-485.
40. **Esimone CO**, Omobowajo OR, Amadi C, Adikwu MU, Edrada R, Proksch P and Nabi G (2006). Antiviral potentials of Nigerian *Aframomum melagueta* Roscoe and *Piper guineense* Schum. and Thonn. *Nig. J. Nat. Prod. Med.* **10**: 51-54.
41. **Esimone CO**, Nwabueze UC, Omeje EO, Obonga WO and Ajali U (2006). *In vitro* interaction of synthesized novel triazinium and iminium salts with some disc antibiotics. *Current Trends in Medicinal Chemistry*: **4**: 73-78.
42. Dibua UE, **Esimone CO** and Anozie AC (2006). Isolation and characterization of antibiotic-producing *Streptomyces spp.* *Journal of Pharmaceutical & Allied Sciences* **3 (2)**: 329-337.
43. **Esimone CO**, Iroha IR, Ibezim EC, Okeh CO and Okpana EM (2006). An *in-vitro* evaluation of the interaction between tea extracts and penicillin G against *Staphylococcus aureus* by the decimal assay for additivity (DAA) method. *African Journal of Biotechnology.* **5(11)**:1082-1086.
44. **Esimone CO**, Uzuegbu DB, Egbu NL, Adikwu MU, Dibua UE and Iroha IR (2006). *In-vitro* evaluation of the interaction between the chloroform extract of *Chromolaena*

- odorata* and lincomycin and itraconazole using the checkerboard method. *J. Med. Pharm Sci* **2**:66-73.
45. **Esimone CO**, Iroha IR, Okeh CO, Ude IG and Adikwu MU (2006). *In vitro* interaction of ampicillin with ciprofloxacin or spiramycin as determined by the decimal assay for additivity technique. *Nig J. Health and Biomedical Sci.* **5(1)**: 12-16
 46. Chah KF, Eze CA, Emuelosi CE, **Esimone CO** (2006). Antibacterial and wound healing properties of methanolic extracts of some Nigerian medicinal plants. *J Ethnopharmacol* **104**: 164-167.
 47. Ibezim EC, **Esimone CO**, Okorie O, Obodo CE, Nnamani PO, Brown SA and Onyishi IV (2006). A study of the *in vitro* interaction of cotrimoxazole and ampicillin using the checkerboard method. *Afric. J. Biotech.* **5(13)**: 1284-1288.
 48. **Esimone CO**, Ibezim EC and Chah KF (2006). The wound healing effects of herbal ointments formulated with *Napoleona imperialis*. *Journal of Pharmaceutical & Allied Sciences* **3**: 294-299.
 49. Ibezim EC, **Esimone CO**, Nnamani PO, Onyishi IV, Brown SA and Obodo CE (2006). *In vitro* study of the interaction between some fluoroquinolones and extracts of *Kola nitida* seed. *African Journal of Biotechnology.* **5 (19)**: 1781-1784.
 50. Nworu CS and **Esimone CO** (2006). Comparative evaluation of three *in vitro* techniques in the interaction of ampicillin and ciprofloxacin against *Staphylococcus aureus* and *Escherichia coli*. *Trop. J. Pharm. Res.* **5(2)**:605-611
 51. Nnamani PO, **Esimone CO** and Eneh TA (2006). An *in vitro* evaluation of antimicrobial interaction between glycine and some penicillins using the decimal assay for additivity (DAA) method. *Journal of Pharmaceutical & Allied Sciences* **3**: 289-293.
 52. Ibezim EC and **Esimone CO** (2006). The Wound healing effect of herbal ointments formulated with *Ocimum gratissimum* leaf extract. *J. Med. & Pharm. Sci.* **2**:58-62.
 53. Obonga WO, Osadebe PO, **Esimone CO** and Ihedioha J (2006). Haematotoxic evaluation of crude Cannabis resins in rats. *Journal of Pharmaceutical & Allied Sciences* **3**: 278-282.
 54. Abonyi DO, Adikwu MU, **Esimone CO** and Ibezim EC (2006). Plants as sources of antiviral agents. *African Journal of Biotechnology* **5 (9)**: **In Press**.
 55. **Esimone CO**, Nwodo NJ, Iroha, IR and Ogbuefi NR (2006). Antifungal Screening of the Methanolic Extract of the Lichen *Ramalina farinacea* (L) Ach. *Afric J. Pharm. Res. Dev.* **2 (2)**: 1-6
 56. **Esimone CO**, Grunwald T, Wildner O, Nchinda G, Tippler B, Proksch P and Ueberla K (2005). *In vitro* Pharmacodynamic Evaluation of Antiviral Medicinal Plants Using a Vector-based Assay Technique. *J Appl Microbiol.* **99**: 1346-1355.
 57. Iroha IR, Ibezim EC, **Esimone CO** and Ngwu E (2005). Evaluation of single and mixed kill kinetics of selected disinfectants against resistant and sensitive isolates of

- Pseudomonas aeruginosa* and *Staphylococcus aureus*. *Bolletino Chimico Farmaceutico*. **145(2):**1-9
58. Ofokansi KC and **Esimone CO** (2005). Evaluation of the in vitro antimicrobial activity and release behaviour of Ointments and Applications containing extracts of the lichen *Ramalina farinacea* (L) Ach. *Plant Prod Res Journal* **9:** 6-10.
59. Ofokansi KC, **Esimone CO** and Anele CR (2005). Evaluation of the in vitro combined antibacterial effect of the leaf extracts of *Bryophyllum pinnatum* (Fam. Crassulaceae) and *Ocimum gratissimum* (Fam. Labiatae). *Plant Prod Res Journal* **9:** 23-27.
60. Ofoefule SI, Ibezim EC, **Esimone CO**, Pepple MN, Njoku CJ and Orisakwe OE (2004). Bioavailability of metronidazole in rabbits after administration of a rectal suppository. *American Journal of Therapeutics* **11(3):**190-193.
61. Ofokansi KC, Adikwu MU, **Esimone CO** and Nwodo, M. (2004). *In vitro* evaluation of the combined antibacterial activity of the leaf extracts of *Dissotis theifolia* with some disc antibiotics. *Indian J. Pharm. Sci.* **66(5):**659-664.
62. Nwodo NJ, Okide GB and **Esimone CO** (2004). Antimicrobial activities of some amino derivatives of 5,7-dibromo-2-methyl-8-benzoyloxyquinoline. *Boll.Chim .Farm.* **143 (9):** 341–343.
63. Nwafor SV, **Esimone CO**, Amadi CA and Nworu CS (2003). In vivo interaction between ciprofloxacin hydrochloride and the pulp of unripe plantain (*Musa paradisiaca*). *European Journal of drug Metabolism & Pharmacokinetics* **28:**253–258.
64. **Esimone CO**, Oleghe PO and Ibezim EC (2003). Effect of preservative agents on the microbial stability of some indigenous herbal preparations. *Nig. J. Pharm.* **34:**37-42.
65. Osadebe PO , **Esimone CO** and Akabogu IC (2003). An empirical assessment of the possibility of interchangeability between multisource ciprofloxacin hydrochloride tablets marketed in Nigeria. *Boll Chim Farm* **142(8):** 352–356.
66. **Esimone CO**, Nwodo NJ, Ibezim EC, Njoku O, Okide GB and Awemu GA (2003). Binding of ceftriaxone sodium to aqueous extract of *Garcinia kola* seed. *Journal of Pharmaceutical & Allied Sciences* **2:** 85-88.
67. Ohiri FC, **Esimone CO**, Nwafor SV, Okoli CO and Ndu OO (2003). Hypoglycemic properties of *Viscum album* (mistletoe) in alloxan–induced diabetic animals. *Pharmaceutical Biology* **41(3):** 184–187.
68. **Esimone CO**, Adikwu MU, Ndu OO, Udeogaranya PO, Ezeugwu CO and Obonga W (2003). Effect of *Garcinia kola* seed extract on the antimicrobial properties of some antibiotics in-vitro. *Journal of Pharmaceutical & Allied Sciences* **2:** 114-120.
69. Ofokansi KC, **Esimone CO**, Okorie O and Ikem GI (2003). Evaluation of the effect of combined modifiers and drug load on the in-vitro release of chloroquine phosphate from solid dosage forms of a fatty base. *Journal of Pharmaceutical & Allied Sciences* **2:**128-137.

70. Adikwu MU, Ofokansi KC, **Esimone CO**, Kene TU and Okorie O (2003). *In vitro* and *ex-vivo* release study of drugs from ointments formulated with beeswax processed from locally available honeycombs. *Journal of Pharmaceutical & Allied Sciences* **1**:45-54.
71. Ebebe IM, Ohiri FC and **Esimone CO** (2003). Assay of cefotaxime and ceftriaxone in pharmaceutical preparations through complexation with fluorescein. *Journal of Pharmaceutical & Allied Sciences* **1**:55-59.
72. Ofokansi KC, Adikwu MU, **Esimone CO** and Nwodo NM (2003). Antibacterial activity of the leaf extract of *Ocimum gratissimum* (Fam. Labiatae). *Bio-Research* **1(1)**: 35-42.
73. Osadebe PO and **Esimone CO** (2003). Qualitative and quantitative evaluation of multisource piroxicam capsules available in Nigeria. *Bio-Research* **1(2)**: 101–110.
74. **Esimone CO**, Ebebe IM, Chah KF and Onyeka CG (2003). Comparative antibacterial effects of *Psidium guajava* aqueous extract. *J Tropical Medicinal Plants* **4(2)**:185-189.
75. Ibezimako EC, **Esimone CO**, Ofokansi KC and Oragui CI (2003). Evaluation of the antifungal properties of nystatin–salicylic acid combination against clinical isolates of *Candida albicans*. *Journal of Biomedical Investigations* **1**: 10–17.
76. **Esimone CO**, Chah KF and Ikejide SC (2002). Microbiological quality of herbal preparations marketed in Southeast Nigeria. *Journal of Natural Remedies* **2**: 42-48
77. **Esimone CO**, Nwafor SV, Okoli CO, Chah KF, Uzuegbu DB, Chibundu CS, Eche MA and Adikwu MU (2002). *In vivo* evaluation of interaction between aqueous seed extract of *Garcinia kola* heckel and ciprofloxacin hydrochloride. *American Journal of Therapeutics* **9**: 275-280.
78. **Esimone CO** and Adikwu MU (2002). Susceptibility of some clinical isolates of *Staphylococcus aureus* to bioactive column fractions from the lichen *Ramalina farinacea* (L) Ach. *Phytotherapy Research* **16**: 494-496.
79. **Esimone CO**, Adikwu MU, Nwafor SV, Okoli CO, Ndu OO and Nwoke OI (2002). *In Vitro* antimicrobial interactions of artemeter with some 4-quinolones. *Bolletino Chimico Farmaceutico* **141**: 385-388.
80. **Esimone CO**, Adikwu MU, Ibezim EC, Ofoefule SI, Nwafor SV and Onuoha OM (2002). Potential application of *Garcinia kola* seed as a natural antidote in the management of ciprofloxacin hydrochloride poison: an *in vitro* study. *Acta Pharmaceutica* **52**: 219-226
81. Ibezim EC, **Esimone CO**, Ofoefule SI and Chah KF (2002). Evaluation of the microbiological quality of some commercially available syrups and suspension marketed in Nigeria. *J. Phytomed. Ther.* **7**: 18–25.
82. Akah PA, Nwafor SV, Okoli CO, **Esimone CO** and Ugwu OE (2002). Antidysentric effect of methanolic extract of *Euphobia hirta*. *Plant Prod. Res. J.* **7(2)**:1-8.
83. **Esimone CO**, Ezugwu CO, Okide GB and Nwodo NJ (2002). Preservative effect of *Aframomum melegueta* oil on Promethazine HCl syrup. *Plant Prod. Res. J.* **7(2)**:25-30.

84. **Esimone CO**, Adikwu MU, Nwafor SV and Okolo CO (2001). Potential use of tea extracts as a complementary mouthwash: Comparative evaluation of two commercial samples. *Journal of Alternative and Complementary Medicine* **7(5)**: 523-527.
85. Okeke MI, Iroegbu CU, Eze EN, Okoli AS and **Esimone CO** (2001). Evaluation of the root extracts of *Landolphia owerrience* for antibacterial activity. *Journal of Ethnopharmacology* **78(2)**: 119-127.
86. Okeke MI, Iroegbu CU, Jideofor CO, Okoli AS and **Esimone CO** (2001). Antimicrobial activity of ethanol extracts of two indigenous Nigerian spices. *Journal of Herbs, Spices and Medicinal Plants* **8(4)**: 39-46.
87. **Esimone CO**, Okonta JM and Ezugwu, CO (2001). Blood sugar lowering effect of *Anacardium occidentale* leaf extract in experimental rabbit model. *Journal of Natural Remedies* **1**: 60-63.
88. **Esimone CO**, Ezeabasili SI, Muko KN, Ohiri FC and Adikwu MU (2001). Drug adsorption studies on pregelatinized gladiolus starch. *Bolletino Chimico Farmaceutico* **140**: 351-353.
89. Okide GB, **Esimone CO** and Obonga WO (2000). Antimicrobial and analgesic properties of *Premna quadrifolia* leaf extract. *Plant Product Research Journal* **5**: 20-25.
90. Okide GB, Adikwu MU and **Esimone CO** (2000). Antimicrobial activities of some amino derivatives of 5, 7- dibromo-2-methyl-8-hydroxyquinoline. *Biological and Pharmaceutical Bulletin* **23(2)**: 257-258.
91. Adikwu MU, **Esimone CO**, Attama AA and Builders PF (2000). Detection of halofantrine, mefloquine and proguanil by charge transfer complexation on thin layer plates. *Bolletino Chimico Farmaceutico* **139**: 46-48.
92. **Esimone CO**, Muko KN and Adikwu MU (1999). Antimicrobial properties of *Indigofera dendroides* leaves. *Fitoterapia* **70**: 517-520.
93. **Esimone CO** and Adikwu MU (1999). Antimicrobial activity and cytotoxicity of *Ramalina farinacea*. *Fitoterapia* **70**: 428-431.
94. **Esimone CO**, Adikwu MU, Uzuegbu DB and Udeogaranya OP (1999). The effect of ethylenediamine tetraacetic acid on the antimicrobial properties of benzoic acid and cetrimide. *Journal of Pharmaceutical Research and Drug Development* **4**: 1-8.
95. **Esimone CO**, Adikwu MU, Ebi GC, Anaga A. and Njoku C (1999). Preliminary physicochemical evaluations and bioactive properties of column fractions from the lichen *Ramalina farinacea* (L) Ach. *Bolletino Chimico Farmaceutico* **138**: 19-25.
96. Attama AA, Adikwu MU and **Esimone CO** (1999). Binary combination of detarium gum and veegum as binders in sodium salicylate tablets. *Bolletino Chimico Farmaceutico* **138**: 199-202.
97. Attama AA, Adikwu MU and **Esimone CO** (1999). Sedimentation studies on chalk suspensions containing blends of veegum and detarium gum as suspending agents. *Bolletino Chimico Farmaceutico* **138**: 521-525.

98. **Esimone CO**, Adikwu MU and Okonta JM (1998). Preliminary antimicrobial screening of the ethanolic extract from the lichen *Usnea subfloridans* (L). *Journal of Pharmaceutical Research and Drug Development* **3**: 99–102.
99. Ibezim EC, **Esimone CO** and Adikwu MU (1998). The release properties of microcapsules prepared with polymerised latex of *Landolphia dulcis*. *Acta Pharmaceutica* **48**: 111-118.
100. Ofoefule SI and **Esimone CO** (1998). Studies on the tableting properties of *Tacca involucrata* starch 1: evaluation as a binder. *Bolletino Chimico Farmaceutico* **137**: 7-12.
101. Ofoefule SI, Orisakwe OE, Ibezim EC and **Esimone CO** (1998). Mechanisms of nifedipine release from sustained release tablets formulated with some polymeric materials. *Bolletino Chimico Farmaceutico* **137**: 223-227.
102. Adikwu MU, Muko KN and **Esimone CO** (1998). Formulation of sustained release theophylline tablets using mucuna gum as a hydrophilic retardant. *Journal of the University of Science and Technology, Kumasi* **18**: 4-7.
103. Adikwu MU and **Esimone CO** (1997). Emulsifying properties of gelrite stabilized with sodium sesquicarbonate (Trona). *Bolletino Chimico Farmaceutico* **136**: 22-27.

4. **HONOURS WON:**

- Dr. Chiori Memorial Prize to the Best Final Year Student in Pharmaceutics for the 1993 / 94 Session.
- Departmental Prize to the Best Graduating Student in the Department of Pharmaceutics, University of Nigeria Nsukka for the 1993 / 94 Session.
- Distinction in Forensic Pharmacy, University of Nigeria, Nsukka. 1993.
- Distinction in Sterile Technology, University of Nigeria, Nsukka. 1995.
- Alexander von Humboldt Fellowship Award, Germany. 2003-2005.
- University of Nigeria Nsukka Sponsorship to the University of Pittsburgh, USA for the Development of Malaria Vaccine 2007-2008
- NFID Travel Grant Recieipient to the 12th Annual Conference on Vaccine Research, Baltimore, MD, USA 2009
- American Society for Cell Biology (ASCB) Travel Grant Recipient to the 1st West African Regional Workshop on the Cell Biology of Protozoan Pathogens, University of Ghana, Accra.
- 2009 Award Winner in the Bright Ideas Contest of the African Network for Drugs and Diagnostics Innovation (ANDI), Cape Town, South Africa.

5. Courses/Topics Taught at the Postgraduate Level:

- Design, Formulation and Evaluation of Parenteral Products
- Pharmaceutical Packaging
- Advanced Biopharmaceutics and Pharmacokinetics
- General Pharmaceutical Microbiology

6. Courses Taught at the Undergraduate Level:

- Dispensing (200 level)
- Introduction to Pharmaceutical Microbiology (200 level)
- Biopharmaceutics (300 level)
- Advanced Pharmaceutical Microbiology (400 level)
- Advanced Dispensing : Dispensing of Sterile Products (400 level)
- Pharmacokinetics (400 level)
- Forensic Pharmacy (400 level)
- Evaluation of Antimicrobial Agents (400 level)
- Microbial Resistance to Antimicrobial Agents (500 level)
- Biopolymers and their Pharmaceutical applications (500 level)

7. LANGUAGES SPOKEN: FRENCH, ENGLISH, GERMAN.