



CURRICULUM VITAE

Department of Pharmaceutics
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CANDIDATE: John Dike Nwabueze OGBONNA
DATE OF BIRTH: 23-08-79
MARITAL STATUS: Married (with 4 children)
NATIONALITY: Nigerian
CURRENT ACADEMIC POSITION: Lecturer I
LANGUAGES SPOKEN: English, Igbo, Hausa

EDUCATION

Year	Institution	Degree conferred/result
2018	University of Nigeria Nsukka, Enugu State, Nigeria	Ph.D
01/12/15-01/10/16	Universidade do Porto, Portugal	Drug Development and Delivery
03/06/15-06/11/15	SNJB's Shriman Sureshdada Jain College of Pharmacy, Chandwad, India	Drug Development and Delivery
2013	University of Nigeria Nsukka, Enugu State, Nigeria	M. Pharm (Pharmaceutics)
2003	University of Nigeria Nsukka, Enugu State, Nigeria	B. Pharm. (Pharmacy)
1995	Dennis Memorial Grammar School, Onitsha, Anambra State, Nigeria	West African Examination Council (WAEC)
1988	Community Primary School, Uvuru, Enugu State, Nigeria	First School Leaving Certificate (FSLC)

Awards/Honours/Fellowships

- 01st Dec. 2105-01st Oct., 2016. Erasmus Mundus Doctoral Research Fellow. Universidade do Porto, Praça Gomes Teixeira 4099-002 Porto, Portugal. Tel.: 00351 220 408 271. Sponsored by European Commission within the framework of ERASMUS MUNDUS Programme, Action 2-STRAND 1, Lot 18 (DREAM Project).

- 3rd June 2015-06th Nov., 2015. Doctoral Research Student; SNJB's Shriman Sureshdada Jain College of Pharmacy, Neminagar, Chandwad, Dist. Nashik-423101, India. Tel.: +91 9822112007. Sponsored by The World Academy of Science (TWAS) Fellowship for Research and Advanced Training.
- TEDFUND 2015. Award on Formulation and Development of Biopolymers for drug delivery tenable for 12 months. Sponsored by Tertiary Education Trust Fund, Nigeria.
- Chairman, Gwoza L.G.A Award for Dedication and Excellence NYSC 'A' 2005/2006.
- Most Industrious (Academic) final year Pharmacy Students, UNN, 2003.
- Best Graduating Student, Dennis Memorial Grammar School, Onitsha, 1995.
- 1st Position, Anambra State JETS Quiz Competition, 1995.
- 3rd Position, National Science Teachers Association of Nigeria quiz, Abeokuta, 1994.
- Best Graduating Student, Community Primary School, Uvuru, 1988.

SUMMARY OF SKILLS AND EXPERIENCE

Has expertise in cell culture and bioanalytical and biophysical techniques and laboratory animal handling. He conducts researches in areas of drug delivery and drug analytical methods development, pharmacokinetics/pharmacodynamics, biopharmaceutical applications of *in vivo* and *ex vivo* systems to study drug absorption from mucoadhesive systems, solid lipid nanoparticles and microparticles and nanostructured lipid carriers, etc. He is skilled in pharmaceutics and pharmaceutical microbiological techniques.

CURRENT RESEARCH INTEREST:

Novel controlled sustained delivery systems of bioactive agents such as small molecule drugs, proteins, peptides and immunopharmaceuticals. Pharmaceutical Nanotechnology and poverty related diseases

Pharmaceutical material sourcing and characterization, quality control, pharmaceutical mechanochemistry and solid state pharmaceutics.

RELEVANT RESEARCH AND WORK EXPERIENCE

- **Oct. 2016 –Date: Lecturer I** in the Department of Pharmaceutics, University of Nigeria, Nsukka. Within this period, taught undergraduate students courses in physical pharmaceutics, drug delivery, dispensing and basic pharmaceutical microbiology. Also participated in undergraduate project advising and supervision. Carried out researches in the area of drug formulations/delivery and pharmaceutical microbiology.
- **May 2013 –Sept 2016. Lecturer II** in the Department of Pharmaceutics, University of Nigeria, Nsukka. Within this period, taught undergraduate students courses in physical pharmaceutics, drug delivery, dispensing and basic pharmaceutical microbiology. Also participated in undergraduate project advising and supervision. Carried out researches in the area of drug formulations/delivery and pharmaceutical microbiology
- **February 2011– April 2013: Graduate Assistant** in the Department of Pharmaceutics, University of Nigeria, Nsukka. Within this period, conducted *in vitro* and *ex vivo* studies on pharmaceutical drug

delivery systems, and organized practical and tutorials for Pharmacy students in Dispensing, Pharmaceutics and Pharmaceutical Microbiology. Conducted a research in *in vitro* and *ex vivo* bioadhesive drug delivery systems that led to M. Pharm. Degree entitled '**Microparticulate formulation of amodiaquine using novel gelatin-carbopol hybrids**'

- **December 2009–January 2011:** Superintendent Community Pharmacist, Johnnexus Pharmacy Ltd; Law School Rd, Bwari Abuja Nigeria.
- **April 2006- November 2009:** Superintendent Community Pharmacist, Astranad Pharmacy Ltd; 42 Oloto Street Ebute Metta East, Lagos, Nigeria.
- **February 2005– February 2006:** National Youth Service Corps. Served as a hospital pharmacist at General Hospital/Primary Health Care Centre, Gwoza, Borno State, Nigeria.
- **December 2003–December 2004:** Intern pharmacist, Nnamdi Azikiwe University Teaching Hospital, Nnewi, Anambra State, Nigeria

COURSES TAUGHT

Dispensing, Physical Pharmaceutics, Cosmetic Science and Technology, Design and Formulation of Dosage Forms, Drug Stability, Pharmacokinetics, Biopharmaceutics, Forensic Pharmacy, Pharmaceutical and Biomedical Polymers, Sterilization Techniques, Recent Drug Delivery Systems, Sterile Products and Pharmaceutical Microbiology.

ADMINISTRATIVE EXPERIENCE

- February 2017– Date: Member, Local Management Committee, Intra-Africa Academic Mobility AFRICOM Project, University of Nigeria, Nsukka.
- May 2014 – Date: Member, Departmental Research Grant Committee, Department of Pharmaceutics, University of Nigeria, Nsukka.
- August 2014- July 2016: Secretary, Pilot Production Committee, Faculty of Pharmaceutical Science, University of Nigeria, Nsukka
- August 2014- July 2016: Member; Examination Committee, Faculty of Pharmaceutical Science, University of Nigeria, Nsukka.
- September 2014- Date. Financial Secretary, National Association of Pharmacists in Academia, University of Nigeria, Nsukka Chapter.
- August 2014- July 2016: Secretary, Ventures Committee, Faculty of Pharmaceutical Science, University of Nigeria, Nsukka
- March 2014-Date: Financial Secretary, Faculty Welfare Association, Faculty of Pharmaceutical Science, University of Nigeria, Nsukka
- August 2012 – July 2014: Member, Equipment Committee Faculty of Pharmaceutical Science, University of Nigeria, Nsukka

EDITORIAL EXPERIENCE

A. Reviewer of the following Reputable Journals

- Reviewer for International Journal of Pharmaceutics, Elsevier Pub.
- African Journal of Biotechnology

PROFESSIONAL ORGANIZATIONS MEMBERSHIP

- Member, Nanomedicine Society of Nigeria (NSN).
- Member, Pharmaceutical Society of Nigeria (PSN).
- Member, Nigerian Association of Pharmacists in Academia (NAPA).

REFEREES

1. Prof. Attama Anthony A.
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University of Nigeria.
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2. Prof. Ofokansi Kenneth C.
Chairman Senate Ceremonials,
University of Nigeria, Nsukka.
Mobile: 08131245821
Email: kcofokansi@yahoo.com

A. Contribution to books

1. **Ogbonna JDN**, Nnamani PO, Okore VC, Attama AA. Phase rule. In: Laboratory Techniques in Physical Pharmaceutics, Attama AA and Ibezim EC (Eds.) Praise Printers, Enugu Nigeria, 2011. pp. 10 – 13.
2. Nnamani PO, Akpa PA, **Ogbonna JDN**, Attama AA. Aggregation behavior of surface active agents. In: Laboratory Techniques in Physical Pharmaceutics, 1stEdn., Attama AA and Ibezim EC (Eds.) Praise House Publishers, Enugu Nigeria, 2011. pp.27 – 30.
3. Ofokansi KC, **Ogbonna, JDN**, Onuigbo BE and Ibezim EC. Drug Partitioning. In: Laboratory Techniques in Physical Pharmaceutics (eds A.A. Attama and E.C. Ibezim). Praise House Publishers, Enugu, 2011. pg. 22-24.
4. Onuigbo EB, **Ogbonna JDN**, Attama AA. Antibiotic assay. In: Laboratory Techniques in Pharmaceutical Microbiology, 1st Edn., VC Okore and KC Ofokansi (Eds.) Praise House Publishers, Enugu, Nigeria 2011. pp. 10 – 14.
5. **Ogbonna JDN**, Kenechukwu FC, Chime SA, Attama AA. Cellulose-Based Biopolymers: Formulation and Delivery Applications. In: Encyclopedia of Biomedical Polymers and Polymeric Biomaterials. Munmaya Mishra (Ed.), Taylor and Francis Group, New York, NY, USA. 2013.pg 1378-1408
6. Okoro U, **Ogbonna JDN**, Attama AA. Nanoparticles for dermal and transdermal drug delivery. In: Application of Nanotechnology in Drug Delivery. Edited by Ali Demir Sezer. Intech Rijeka, Croatia. 2014.pg. 193-201.

B. Papers published and accepted for publication

1. **Ogbonna JDN**, Attama AA, Ofokansi KC, Patil SB, Basarkar GD. Optimization of formulation processes using Design Expert® Software for preparation of polymeric blends-artesunate-amodiaquine HCl microparticles. *J Drug Deliv Sci Tech.* 2017; 39: 36-49.
2. Nnamani PO, Ugwu AA, Ibezim EC, Kenekwku FC, Akpa PA, **Ogbonna JDN**, Obitte NC, Odo AN, Windbergs M, Lehr C-M, Attama AA. Sustained-release liquisolid compact tablets containing artemether–lumefantrine as alternate-day regimen for malaria treatment to improve patient compliance. *International Journal of Nanomedicine* 2016; 11: 6365–6378.
3. Agbo C, Umeyor C, Kenekwku F, **Ogbonna J**, Chime S, Charles L, Agubata O, Ofokansi K, Anthony Attama A. Formulation design, in vitro characterizations and anti-malarial investigations of Artemether and Lumefantrine-Entrapped Solid Lipid Microparticles. *Drug Dev Ind Pharm.* 2016. DOI: 10.3109/03639045.2016.1171331
4. **Ogbonna JDN**, Nzekwe IT, Kenekwku FC, Nwobi CS, Amah JI and Attama AA. Development and Evaluation of Chloroquine Phosphate Microparticles using Solid Lipid as a Delivery Carrier. *J Drug Discov Develop and Deliv.* 2015; 2(1): id1011.
5. Nnadi CO, Obonga WO, **Ogbonna JDN**, Ugwu LO. Development of Vanadometric System for Spectrophotometric Determination of Timolol in Pure and Dosage Forms. *Trop J Pharm Res* 2015; 14 (12): 2223-2229
6. Uronnachi EM, **Ogbonna JDN**, Kenekwku FC, Chime SA, Attama AA, Okore VC. Formulation and Release Characteristics of Zidovudine-Loaded Solidified Lipid Microparticles. *Trop J Pharm Res.* 2014; 13(2): 199-204.
7. Momoh MA, Mora AT, **Ogbonna JDN**, Agboke AA. *In Vitro* Evaluation of Antimicrobial Activity of Cat Fish Slime Mucin on Selected Micro-organisms by Agar Diffusion Method. *Pakistan J. Zool.*, 2014; 46(6): 1747-1751.
8. Chinaeke EE, Chime SA, **Ogbonna JDN**, Attama AA, Müller-Goymann CC, Okore VC. Evaluation of dika wax-soybean oil-based artesunate-loaded lipospheres: in vitro–in vivo correlation studies. *J Microencapsul.* Early Online: 1–9. 2014. DOI: 10.3109/02652048.2014.940008.
9. Kenekwku FC, Umeyor CE, Momoh MA, **Ogbonna JDN**, Chime SA, Nnamani PO, Attama AA. Evaluation of gentamicin-entrapped solid lipid microparticles formulated with a biodegradable Homolipid from *Capra hircus*. *Trop J Pharm Res.* 2014; 13 (8): 1999-1205
10. Kenekwku FC, Momoh MA, Nnamani PO, **Ogbonna JDN**, Umeyor CE, Attama AA. Improved bioactivity of gentamicin from novel solid lipid microparticles based on beeswax. *Nig J Pharm Res.* 2014; 10 (1): 35- 45.
11. **Ogbonna JDN**, Kenekwku FC, Nwobi CS, Chibueze OS, Attama AA. Formulation, *in vitro* and *in vivo* evaluation of halofantrine-loaded solid lipid microparticles. *Pharm Dev Technol.* 2015; 20(8): 941-948

12. **Ogbonna JDN**, Brown SA, Chime SA, Chukwu KI, Agubata CO, Ugwu CO, Nnalue KA, Onunkwo GC. Evaluation of *Colocasia antiquorum* gum in sustained release of diphenhydramine HCl and theophylline hydrate tablet formulations. *J Drug Del Sci Tech.* 2014; 24(5): 519-524.
13. Mshelbwala K, Ofokansi KC, Kenekchukwu FC, Bangudu AB, Onaolapo JO, Achuam J, Momoh MA, **Ogbonna JDN**. Evaluation of the Effect of Storage on the Physicochemical Properties of Folic acid Tablets Formulated with Sorghum Starch. *Indian J Novel Drug Deliv.* 2014; 6(1): 59-67.
14. Nnamani PO, Kenekchukwu FC, Dibua EU, Ogbonna CC, Momoh MA, **Ogbonna JDN**, Okechukwu DC, Olisemeke AU, Attama AA. Bioactivity of gentamicin contained in novel transdermal drug delivery systems (TDDS) formulated with biodegradable polyesters. *Afr. J. Pharm. Pharmacol.* 2013; 7(28): 1987-1993.
15. **Ogbonna JDN**, Ezema BE, Obimma CP, Agbo MO. Phytochemical properties of Methanol Extract and Antimicrobial study of Less Polar Fractions of *Loranthusmicranthus* (Linn.) parasitic on *Alstonia boonei*. *The Pharma Innovation – Journal.* 2013;2(8): 83-88.
16. Kenekchukwu FC, Ibezim EC, Attama AA, Momoh MA, **Ogbonna JDN**, Nnamani PO, Chime SA, Umeyor CE and Uronnachi EM. Preliminary spectroscopic characterization of PEGylated mucin, a novel polymeric drug delivery system. *African Journal of Biotechnology.* 2013; 12(47): 6661-6671.
17. Okore VC, Momoh MA, **Ogbonna JDN**, Kenekchukwu FC and Akporube GG. Restorative effect of methanol leaf extract from *Vernonia amygdalina* on dermal wounds modeled with Albino Rats. *African J Pharm Res and Development.* 2013; 5(2): 121-126.
18. Okore VC, **Ogbonna JDN**, Kenekchukwu FC. *In vitro* release mechanism of acetylsalicylic acid from melt-extrusion granules of Dika Wax. *African J Pharm Res and Development.* 2013; 5(2): 91-98.
19. Momoh MA, Kenekchukwu FC, Chime SA, **Ogbonna JD**, Mora AT. Anti-inflammatory and pharmacokinetics evaluation of PEGylated ibuprofen tablet formulation. *Drug Delivery,* 2014; 21(4): 315–319.
20. **Ogbonna JDN**, Inya-Agha SI, Kenekchukwu FC, Momoh MA, Chime SA, Attama AA. Evaluation of six herbal plants used in the treatment of malaria in south-eastern Nigeria: A review. *Int. J. Pharm. Res. Bioscience.* 2013; 2(1): 148-167.
21. Uronnachi EM, **Ogbonna JDN**, Kenekchukwu FC, Attama AA, Okore VC. Formulation and *in vitro/in vivo* evaluation of zidovudine contained in solidified reverse micellar delivery system in immune compromised rats. *J. Applied Pharm. Sci.* 2013; 3(2): 031-035.
22. Uronnachi EM, **Ogbonna JDN**, Kenekchukwu FC, Attama AA, Okore VC. Pharmacokinetics and biodistribution of zidovudine loaded in a solidified reverse micellar delivery system. *Int. J. Drug. Delivery.* 2013; 5(1):73-80.

23. Umeyor EC, Kenekwukwu FC, **Ogbonna JD**, Chime SA, Attama AA. Investigation of solidified reverse micellar systems as novel carriers for oral delivery of gentamicin. *Journal of Pharmacy Research*. 2012;5(9): 4914-4920.
24. **Ogbonna JDN**, Kenekwukwu FC, Attama AA, Chime SA. Different approaches to formulation of herbal extracts/phytopharmaceuticals/bioactive phytoconstituents. *Int. J. Pharm Rev. Res*. 2012;16(1): 1-8.
25. Uronnachi EM, **Ogbonna JDN**, Kenekwukwu FC, Attama AA, Chime SA. Properties of zidovudine loaded solidified reverse micellar microparticles prepared by melt dispersion. *Journal of Pharmacy Research*. 2012; 5(5): 2870-2874.
26. Chime SA, Kenekwukwu FC, Onunkwo GC, Attama AA, **Ogbonna JDN**. Recent advances in lipospheres drug delivery system. *Journal of Pharmacy Research*. 2012; 5(3): 1743-1748.
27. Umeyor CE, Kenekwukwu FC, **Ogbonna JDN**, Chime SA, Attama AA. Preparation of novel solid lipid microparticles loaded with gentamicin and its evaluation *in vitro* and *in vivo*. **J. Microencapsul**. 2012;29(3):296–307.
28. Ofokansi KC, Kenekwukwu FC, Isah AB, **Ogbonna JDN**. Solid Dispersion as an approach for dissolution enhancement and delivery of trandolapril, a poorly water-soluble ACE inhibitor. *Indian Journal of Novel Drug delivery*. 2012; 4(4): 284-294.
29. **Ogbonna JDN**, Bello M, Eke IG, Kenekwukwu FC, Agubata C. Health assessment of Gwoza residents in Borno State, Nigeria: A Case Study. *Journal of applied Pharmaceutical Science*. 2012; 2 (11): 134-138.
30. Kenekwukwu FC, Mbah CJ, Momoh MA, Chime SA, Umeyor CE and **Ogbonna JDN**. Pharmacological justification for the ethnomedical use of *Clausena anisata* root-bark extract in the management of epilepsy. *Journal of Applied Pharmaceutical Science*. 2012; 2(9): 036-040. DOI: 10.7324/JAPS.2012.2907.
31. Chime SA, Attama AA, Agubata CO, **Ogbonna JD**, Onunkwo GC. Micromeritic and antinociceptive properties of lyophilized indomethacin loaded SLMs based on solidified reverse micellar solutions. *Journal of Pharmacy*. 2012; 5(6): 3410-3416.
32. Ofokansi, KC, Kenekwukwu FC, Charles L, Attama AA, **Ogbonna JDN**, Isah AB and Allagh TS. Topical delivery of miconazole-loaded microemulsion: formulation design and evaluation. *Journal of Pharmaceutical and Allied Sciences*. 2012; 9(1):1458 – 1471.
33. Ibezim EC, **Ogbonna JDN**, Uzor NJ, Kenekwukwu FC, Momoh MA. Impact of hypertension on the economy of Nigeria: A case study of Nsukka and Awka in Enugu and Anambra States respectively. *International Journal of Pharmaceutical Research and Bio-science*. 2012; 1(4): 148-158.
34. Attama AA, Ayogu IJ, Kenekwukwu FC, **Ogbonna JDN**, Okore VC. A New Lipid Based Drug Delivery System (LBDDS) for Oral Delivery of Tioconazole. *Int. J. Drug Deliv*. 2012;3: 743-753.

35. Umeyor CE, Kenekwukwu FC, **Ogbonna JDN**, Builders PF, Attama AA. Preliminary studies on the functional properties of gentamicin in SRMS-based solid lipid microparticles. *Int. J. Novel Drug Deliv. Technol.* 2011;1(2): 130-142.

C. Podium and poster presentations

- **Ogbonna JDN**, Attama AA, Ofokansi KC, Ferreira D.de C., Costa PJC. Rheological evaluation of some natural polymers and their blends, 6th International Colloids Conference, 19 - 22 June 2016, Maritimpro Arte Hotel Berlin, Germany.
- **Ogbonna JDN**, Attama AA, Akpa PA. Formulation, characterization and *in vivo* evaluation of hybrids of gelatin A and carbopol 971P based amodiaquine hydrochloride microparticles, 6th International Colloids Conference, 19 - 22 June 2016, Maritim proArte Hotel Berlin, Germany.
- **Ogbonna John Dike N.**, Attama Anthony A., Kenekwukwu Franklin C. Characterization and *in vitro* evaluation of hybrids of gelatin A and carbopol 971P based amodiaquine hydrochloride microparticles. POLYCHAR 24, the 24th Annual World Forum on Advanced Materials, May 9-13, 2016, Poznan University of Technology, Poznań, Poland.
- **Ogbonna JDN**, Kenekwukwu FC, Charles L, Chime SA and Attama AA. Formulation and evaluation of moisture content and swelling properties of amodiaquine-loaded microparticles. 1st International Nanomedicine Conference by Nanomedicine Society of Nigeria 24-28 November, 2013, African University of Science and Technology, Galadimawa, Abuja, Nigeria.
- **Ogbonna JDN**, Kenekwukwu FC, Akpa PA, Attama AA. Spectroscopic evaluation of biopolymer blends of gelatin and carbopol 971 N for drug delivery. The 1st African International Conference/Workshop 23-29 March, 2014, University of Nigeria, Nsukka,.
- Okore VC, **Ogbonna JDN**, Kenekwukwu FC. *In vitro* release mechanisms of acetylsalicylic acid from melt-extrusion granules of dika wax. Chemical Society of Nigeria, Enugu State Chapter 20th June, 2012. Nsukka, Nigeria.

D. Workshops and Conferences attended

- 6th International Colloids Conference, 19 - 22 June 2016, Maritim proArte Hotel Berlin, Germany.
- POLYCHAR 24, the 24th Annual World Forum on Advanced Materials, May 9-13, 2016, Poznan University of Technology, Poznań, Poland
- 20th Annual National Convention of Association of Pharmaceutical Teachers of India Organized by Pharmacy Institutions of Madhya Pradesh. Theme: Strategic approaches to strengthen academic and industrial collaboration. Takshashila Campus, Indore, India. 9-11 October, 2015.

- Drug regulatory affairs, Market research, Business analytics, Pharmacovigilance and Clinical research. Organized by RAP Analytical Research and Training Centre, Nashik, India, 8-9 August, 2015.
- The 1st African International Conference/Workshop, on Nanotechnology application for energy, health and environment, University of Nigeria, Nsukka, 23-29 March, 2014.
- Five day Nanotechnology and Biotechnology workshop, organized by FUT-MINNA STEP-B Program in conjunction with SHEDA-AUST-Princeton STEP-B Program and the Nanomedicine Society of Nigeria at African University of Science and Technology, Galadimawa, Abuja, Nigeria. 26 Nov - 1 Dec., 2012.
- 14th Annual Conference of Chemical Society of Nigeria, Enugu State. Chapter. Nsukka Nigeria on Chemistry and healthcare delivery. 20 June, 2012.