

## CURRICULUM VITAE

**I. Name:** AKIN-AJANI, Olufunke Dorothy (Nee Olurinola)  
**Department:** Pharmaceutics & Industrial Pharmacy  
**Tel. Phone No.:** +234 802 3007412  
**E-mail Address:** [oakinajani@yahoo.com](mailto:oakinajani@yahoo.com); [od.akin-ajani@ui.edu.ng](mailto:od.akin-ajani@ui.edu.ng)  
**Postal Address:** P. O. Box 20302, UI Post Office, Ibadan, Nigeria  
**II. Present Appointment** Lecturer I

### III. University Education:

- |  |             |
|--|-------------|
| (i) Ahmadu Bello University, Zaria, Nigeria. | 1988 - 1995 |
| (ii) University of Ibadan, Ibadan, Nigeria.  | 2001 - 2004 |
| (iii) University of Ibadan, Ibadan, Nigeria. | 2005 - 2012 |

### IV. Academic Qualifications:

- |                            |      |
|----------------------------|------|
| (i) Bachelor of Pharmacy   | 1995 |
| (ii) Master of Science     | 2004 |
| (iii) Doctor of Philosophy | 2012 |

### V. Professional Qualifications and Diplomas:

- |   |      |
|---|------|
| (i) Registered Pharmacist Pharmacists Council of Nigeria                | 1996 |
| (ii) Fellow (FPCPharm) West African Postgraduate College of Pharmacists | 2016 |

### VI. Scholarships, Fellowships and Grants:

#### (i) Scholarships and Fellowships

The World Academy of Science & German Research Foundation (TWAS-DFG) Fellowship Visit  
Apr. – Jun. 2015

#### (ii) Research Grants

NIL

### VII. Honours, Distinctions and Membership of Learned Societies:

#### *Academic and Professional Honours*

Pharmaceutical Society of Nigeria/ Nigerian Journal of Pharmacy (PSN/NJP) Award for best poster presentation (Industrial Pharmacy Sector) 2013

#### *Membership of Learned Societies*

- Pharmaceutical Society of Nigeria (PSN)
- West African Postgraduate College of Pharmacy (WAPCP)
- Nigeria Association of Pharmacists in Academia (NAPA)

### VIII. Working Experience

- |   |                  |
|---|------------------|
| (i) Lecturer I, University of Ibadan, Ibadan, Nigeria | Oct. 2015 – date |
| <u>Undergraduate Courses Taught</u>                   | <u>Units</u>     |
| a) PCT 201 Introductory Pharmaceutics                 | 3                |
| b) PCT 202 Unit Operations                            | 3                |
| c) PCT 301 Drug Dosage Forms I                        | 3                |
| d) PCT 401 Drug Dosage Forms II                       | 3                |

- e) PCT 402 Physical Pharmaceutics II 3
- f) PCT 501 Formulation Process 3
- g) PCT 502 Industrial Pharmacy 3
- h) PCT 503 Production and Quality Control of Cosmetics 2
- i) PAA 501 Veterinary Pharmacy 3

Project Supervision Undergraduate

- (a) Number completed – Sixteen (16) 2006 - 2017

Postgraduate Courses Taught

- (a) PCT 702 Biopharmaceutics 2014 - date 2
- (b) PCT 703 Trends in dosage form development 2
- (c) PCT 705 Advanced formulation studies & Drug design 3
- (d) PCT 706 Advanced tableting technology 3
- (e) PCT 708 Advanced micromeritics 2
- (f) PCT 712 Advanced unit operations 2

Postgraduate Project Supervision

- (a) Number completed – One (1) 2014 - date
- (b) On-going – One (1)

Academic and Administrative Experience in University of Ibadan

- (a) 200 Level Course Coordinator 2013 - date
  - (b) Departmental Postgraduate Coordinator 2014 - date
  - (c) Chairperson, Faculty Workplace Wellness Committee 2013 - date
  - (d) Coordinator, Faculty Seminar Committee 2015 - date
  - (e) Member, Departmental Fund - Generating Committee 2012/2013
  - (f) Member, Faculty 30<sup>th</sup> Anniversary Committee 2013 - 2014
  - (g) Member, Faculty Student Welfare Scheme Committee 2013 - date
  - (h) Member, Faculty Induction Ceremony Committee 2014 - date
  - (i) Member, Faculty Inaugural Lecture Committee 2014 - date
  - (j) Member, Faculty Ibarapa Development Committee 2013 - date
- (ii) Lecturer II, University of Ibadan, Ibadan, Nigeria Sept. 2012 – Sept. 2015
  - 1. Lecturer II, University of Lagos, Lagos, Nigeria Aug. 2005 - Sept. 2012

**Reviewer for the following Journals**

1. Starch/Starke
2. Nigerian Journal of Pharmaceutical Research

**IX. Research:**

## Research

- (a) Development of native and modified starches as excipients in pharmaceutical tablets.
- (b) Evaluation of local starches (plantain, fonio, sweet potato and) as binders and disintegrants in tablet formulations.
- (c) Studies on compression and tableting of local starches and their formulations.
- (d) Accelerated stability studies on tablet formulations with local starches as binders
- (e) Generic variation in the physicochemical parameters of branded capsules and tablets in Lagos and Ibadan, Nigeria
- (f) Binding Effect of *Chrysophyllum albidum* Mucilage in Tablet formulation
- (g) Use of shea butter and dika fat in suppository formulation
- (h) Use of starches and mucilage as polymers in metformin microbeads
- (i) *Phoenix dactylifera* Linn. Mucilage as a directly compressible excipient in metronidazole tablet formulation
- (j) *Phoenix dactylifera* Linn. Mucilage as a polymer in metformin-loaded microbeads
- (k) Formulation of hand sanitizers using co-processed polymer blends

## Dissertation and Thesis

- (a) Age and sex differences in the effect of quinine on pentobarbitone hydroxylase in mice. B. Pharm. Dissertation, 1993.
- (b) The effects of plantain and corn starch binders on the compressional characteristics of paracetamol formulations and the mechanical and disintegration properties of their tablets. M. Sc. Dissertation, 2004.
- (c) Material and tablet properties of acid-modified forms of *digitaria exilis* and *ipomea batatas* starches in paracetamol formulations. Ph.D. Thesis. 2012.

## X. List of Publications

### A. Refereed Journals

1. Odeku, O. A., Aderogba, A. A., Ajala, T. O. **Akin-Ajani, O. D.**, Okunlola A. (2017) Formulation of floating metronidazole microspheres using cassava starch (*Manihot esculenta*) as polymer. *Journal of Pharmaceutical Investigation* DOI 10.1007/s40005-017-0319-7
2. Ajala, T. O., **Akin-Ajani, O. D.**, Ihuoma-Chidi, C., Odeku, O. A. (2016) *Chrysophyllum albidum* mucilage as a binding agent in paracetamol tablet formulations. *Journal of Pharmaceutical Investigation* 46 (6): 565 – 573 DOI 10.1007/s40005-016-0266-8
3. **Akin-Ajani, O. D.**, Itiola, O. A. and Odeku, O. A. (2015) Evaluation of the disintegrant properties of native and modified forms of fonio and sweet potato starches. *Starch/Stärke* Vol. 68. No. 1-2. 169-174
4. **Akin-Ajani, O. D.**, Itiola, O. A. and Odeku, O. A. (2014) Effect of acid modification on the material and compaction properties of fonio and sweet potato starches. *Starch/Starke* Vol. 66. No. 7-8. 749-759
5. Dare K, **Akin-Ajani D.O**, Odeku O. A, Odusote O. M, and Itiola O. A. (2006) Effects of pigeon pea and plantain starches on the compressional, mechanical and disintegration properties of paracetamol tablets. *Drug Dev. & Industrial Pharmacy*. *Drug Dev. & Industrial Pharmacy*; 32(3): 357- 365

6. **Akin-Ajani** O. D., Itiola O. A. and Odeku O. A. (2005). The effects of plantain and corn starches on the mechanical and disintegration properties of paracetamol tablets. *AAPS PharmSciTech.*; 6(3): 458 - 463

#### **B. Published Conference Proceedings**

1. **Akin-Ajani** O. D. and Itiola O. A., 2013. Disintegrant Properties of Natural and Acid Modified Fonio and Sweet Potato Starches in Tablet Formulation. *The Nigerian Journal of Pharmacy*, 47(2): 77

#### **C. Books/Chapter in a book**

1. Ajala T. O., **Akin-Ajani** O. D., Odeku O. A., 2013. Recent Advances in Oral Drug Delivery Systems. In: **Recent Advances in Drug Delivery Research**. Editors: Violiani, V., Nova Science Publishers Inc., NY, USA. Chapter 2, pp. 33-51. ISBN: 978-1-62948-228-6

#### **XI. Major Conferences Attended with Papers Read**

1. 1<sup>st</sup> International conference of the Centre for Drug Discovery, Development and Production, Faculty of Pharmacy on “Medicine regulation of claims: from concept to launch” held at the University of Ibadan, Ibadan, Nigeria. October 2 – 4, 2013.

Paper read: NIL

2. 86<sup>th</sup> Pharmaceutical Society of Nigeria (PSN) National Conference on “Evolving Best Practices in Patient Care” held at Ilorin, Kwara State, Nigeria. November 5 – 8, 2013

Paper read:

Disintegrant Properties of Natural and Acid Modified Fonio and Sweet Potato Starches in Tablet Formulation

3. 12<sup>th</sup> National Conference and Scientific Meeting on “Harnessing Pharmaceutical Research for National Development” held at Ahmadu Bello University, Zaria, Nigeria. April 14 – 17, 2014.

Paper read: NIL

4. Women Advancement Forum (WAFIRAN) on “International Exchanges, Research and Academia in Nigeria” held at University of Ibadan, Ibadan, Nigeria. November 5 – 7, 2014.

Paper read: NIL

5. 27<sup>th</sup> Annual General & Scientific Symposium of the West African Postgraduate College of Pharmacists on “Diseases of Public Health Importance in West Africa” held at Lagos, Nigeria. June 29 – July 2, 2015.

Paper read: NIL

6. Drug Discovery & Therapy World Congress 2015 held at Convention Center, Boston, USA. July 22 – 25, 2015.

Paper read:

Cassava starch as a polymer for the formulation of floating metronidazole microspheres

7. 13<sup>th</sup> Annual Conference and Scientific Meeting on “Achieving Excellence in Pharmaceutical Education & Research” held at Faculty of Pharmacy, University of Ibadan, Ibadan, Nigeria. August 10 – 14, 2015

Paper read: NIL

8. 88<sup>th</sup> Annual National Conference of the Pharmaceutical Society of Nigeria (PSN) on “Advancing Pharmacy through Strategic Workforce Development in Practice Settings” held at International Conference Centre, Abuja, Nigeria. November 9 – 14, 2015

Paper read: NIL

9. Humboldt Kolleg, on “Humboldt Rescues Nigerian Academics: Ethical issues in Research and Scholarship in Nigerian Universities” held at Conference Centre, University of Ibadan, Ibadan, Nigeria. February 10 – 14, 2016

Paper read: NIL

10. 14<sup>th</sup> Annual Conference and Scientific Meeting on “Advancing Pharmaceutical Education & Research towards Personalized Medicine: Implications for Pharmacy Practice in Nigeria” held at Faculty of Pharmacy, Olabisi Onabanjo University, Sagamu, Nigeria. July 11 – 15, 2016.

Paper read:

Packing and cohesive properties of powders using native hungry rice starch, its acid modified forms and their binary mixtures with paracetamol and lactose

11. 15<sup>th</sup> Annual Conference and Scientific Meeting on “” held at Faculty of Pharmacy, University of Lagos, Lagos, Nigeria. August 21 – 25, 2017.

Paper read:

The formulation of hand sanitizers using carbopol, HPMC and their co-processed blends as carriers