

CURRICULUM VITAE

Biodata

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Gender: Male **Nationality:** Nigerian/Jamaican **Marital Status:** Married

US Residence Status: Permanent Resident

Country of Birth: Nigeria

Education

Institution/Location	Degree	Year
<i>Obafemi Awolowo University Ile-Ife, Nigeria</i>	<i>B. Pharm.</i>	<i>1989</i>
<i>Obafemi Awolowo University Ile-Ife, Nigeria</i>	<i>M. Sc. (Pharmaceutics)</i>	<i>1995</i>
<i>Obafemi Awolowo University Ile-Ife, Nigeria</i>	<i>M.B. A</i>	<i>1999</i>
University of Ibadan, Nigeria	PhD	2001

Specialized Training/Certificates

Apr 15, 2014	Presenting Data and Information Course by Edward Tufte Chicago Fairmont
Nov. 1 – 3, 2011	Introduction to Phoenix WinNonlin, Pharsight Corporation, CA at Waltham, Massachusetts
March 14 – 16 2006	ISO/IEC 17025 and Accreditation, National Quality Infrastructure Project. Ministry of Commerce, Science and Technology, Jamaica
January 26 – 30, 2009	ISO 17025 Assessor Training Course, Jamaica National Agency for Accreditation
Oct. 22 – 26, 2007	PAHO/WHO Workshop on "Training in High Performance Liquid Chromatography (HPLC) and Dissolution Test in Quality Control of Antiretroviral Drugs"
Additional Skills	Data treatment and analysis with SPSS, Minitab, MS EXCEL, Other MS Office applications Pharmacokinetics modeling and simulations: Gastroplus®; Phoenix WinNonlin® ; Design of Experiments with DoE® Fusion One

Teaching: Course Taught in Each Semester

- Summer 2011:** PHAR520 Pharmaceutics I (Drug Delivery) & Laboratory – **3 Credits**
(Co-taught with Dr. M. Adeyeye, R. Panakanti & R. Adewuya)
Input: Syllabus and laboratory manual development, course teaching, laboratory session administration and student's assessment
- Fall 2011:** PHAR521 Pharmaceutics II (Drug Delivery) & Laboratory – **3 Credits**
(Co-taught with Dr. M. Adeyeye, R. Panakanti & R. Adewuya)
Input: Syllabus and laboratory manual development, course teaching, laboratory session administration and student's assessment
- Winter 2011:** PHAR522 Pharmaceutics III (Biopharmaceutics & Pharmacokinetics plus Modeling and Simulations Laboratory) – **3 Credits**
Input: Syllabus and laboratory manual development, course teaching, laboratory session administration and student's assessment
- Summer 2012:** PHAR520 Pharmaceutics I (Drug Delivery) & Laboratory – **3 Credits**
(Co-taught with Dr. M. Adeyeye, R. Panakanti & R. Adewuya)
Input: Syllabus and laboratory manual revision, course teaching, laboratory session administration and student's assessment
- PHAR563 Drug Delivery and Technology (Research Elective) - **3 Credits**
(Group mentorship with Dr. M. Adeyeye & R. Panakanti)
- Input:** Study topic selection, experimental design, methods development, monitoring data collection by students, guiding data analysis, result preparation and discussion and final reports preparation. Students were also guided on preparation of posters for scientific presentation.
- Fall 2012:** PHAR521 Pharmaceutics II (Drug Delivery) & Laboratory – **3 Credits**
(Co-taught with Dr. M. Adeyeye, R. Panakanti & R. Adewuya)
Course URL:
http://roosevelt.blackboard.com/webapps/portal/frameset.jsp?tab_tab_group_id=2_1&url=%2Fwebapps%2Fblackboard%2Fexecute%2Flauncher%3Ftype%3DCourse%26id%3D_234627_1%26url%3D
Input: Syllabus and laboratory manual revision, course teaching, laboratory session administration and student's assessment
- Winter 2012:** PHAR522 Pharmaceutics III (Biopharmaceutics & Pharmacokinetics plus Modeling and Simulations Laboratory) – **3 Credits**
Course URL:
http://roosevelt.blackboard.com/webapps/portal/frameset.jsp?tab_tab_group_id=2_1&url=%2Fwebapps%2Fblackboard%2Fexecute%2Flauncher%3Ftype%3DCourse%26id%3D_223357_1%26url%3D

Input: Syllabus and laboratory manual revision, course teaching, laboratory session administration and students' assessment

Spring 2013:

PHAR763 Individualized Therapy and Personalized Medicine – Elective for P3 Pharm. D. – **3 Credits**

Course URL:

http://roosevelt.blackboard.com/webapps/portal/frameset.jsp?tab_tab_group_id=2_1&url=%2Fwebapps%2Fblackboard%2Fexecute%2Flauncher%3Ftype%3DCourse%26id%3D_228562_1%26url%3D

Input: Course proposal and Syllabus development, course teaching and students' assessment

Summer 2014:

PHAR519 Pharmaceutical Calculations – **2 Credits** (Co-taught with Dr. R. Panakanti)

Course URL:

http://roosevelt.blackboard.com/webapps/portal/frameset.jsp?tab_tab_group_id=2_1&url=%2Fwebapps%2Fblackboard%2Fexecute%2Flauncher%3Ftype%3DCourse%26id%3D_234719_1%26url%3D

Input: Course coordinator. Course proposal and syllabus development, self-review calculations video preparation, active learning in-class group and individual exercises preparation, administration and assessment, course teaching and students' assessment, grades compilations and assessment reporting.

Fall 2014

PHAR520 Pharmaceutics I (Drug Delivery) & Laboratory – 3 Credits (Co-taught with Dr. M. Adeyeye, R. Panakanti & R. Adewuya)

Course URL:

http://roosevelt.blackboard.com/webapps/portal/frameset.jsp?tab_tab_group_id=2_1&url=%2Fwebapps%2Fblackboard%2Fexecute%2Flauncher%3Ftype%3DCourse%26id%3D_234627_1%26url%3D

Input: As for Fall 2013 above

Input: Course syllabus preparation and development, student mentorship, study activity guidance document preparation, report supervision and assessment. Preparation of lab videos for students' self-review and preparation for lab exercises

Winter 2014

PHAR521 Pharmaceutics II (Drug Delivery) & Laboratory – **3 Credits** (Co-taught with Dr. M. Adeyeye, R. Panakanti & R. Adewuya)

Course URL:

http://roosevelt.blackboard.com/webapps/portal/frameset.jsp?tab_tab_group_id=2_1&url=%2Fwebapps%2Fblackboard%2Fexecute%2Flauncher%3Ftype%3DCourse%26id%3D_234627_1%26url%3D

Input: Syllabus and laboratory manual revision, course teaching, laboratory session introduction, supervision of students and laboratory assistants, lab report grading and students' assessment.

Spring 2014

PHAR522 Pharmaceutics III (Biopharmaceutics & Pharmacokinetics plus Modeling and Simulations Laboratory – **3 Credits**

Course URL:

http://roosevelt.blackboard.com/webapps/portal/frameset.jsp?tab_tab_group_id=2_1&url=%2Fwebapps%2Fblackboard%2Fexecute%2Flauncher%3Ftype%3DCourse%26id%3D_223357_1%26url%3D

Input: Course coordinator. Syllabus revision, course teaching, PK calculation and course review videos preparation, active learning in-class exercises preparation, administration and delivery, grading and students' assessment. Grade compilation and assessment reports.

Spring 2015

PHAR522 Pharmaceutics III (Biopharmaceutics & Pharmacokinetics plus Modeling and Simulations Laboratory – **3 Credits**

Course URL:

http://roosevelt.blackboard.com/webapps/portal/frameset.jsp?tab_tab_group_id=2_1&url=%2Fwebapps%2Fblackboard%2Fexecute%2Flauncher%3Ftype%3DCourse%26id%3D_223357_1%26url%3D

Input: Course coordinator. Syllabus revision, course teaching, PK calculation and course review videos preparation, active learning in-class exercises preparation, administration and delivery, grading and students' assessment. Grade compilation and assessment reporting in grade books.

Fall 2015

PHAR520 Pharmaceutics I (Drug Delivery) & Laboratory – 3 Credits (Co-taught with Dr. M. Adeyeye & R. Panakant)

Course URL:

http://roosevelt.blackboard.com/webapps/portal/frameset.jsp?tab_tab_group_id=2_1&url=%2Fwebapps%2Fblackboard%2Fexecute%2Flauncher%3Ftype%3DCourse%26id%3D_234627_1%26url%3D

Input: Course syllabus preparation and development, student mentorship, study activity guidance document preparation, report supervision and assessment.

Laboratory Coordinator (Lab Manager resigned) Review of lab inventory of ingredients and supplies, revision of laboratory manual, preparation of laboratory demonstration videos for students' self-review and preparation for lab exercises, laboratory report grading and assessment, lab grad compilation and reporting.

Winter 2015

PHAR521 Pharmaceutics II (Drug Delivery) & Laboratory – **3 Credits** (Co-taught with Dr. M. Adeyeye and R. Panakanti)

Course URL:

http://roosevelt.blackboard.com/webapps/portal/frameset.jsp?tab_tab_group_id=2_1&url=%2Fwebapps%2Fblackboard%2Fexecute%2Flauncher%3Ftype%3DCourse%26id%3D_234627_1%26url%3D

[up_id= 2_1&url=%2Fwebapps%2Fblackboard%2Fexecute%2Flauncher%3Ftype%3DCourse%26id%3D_234627_1%26url%3D](http://roosevelt.blackboard.com/webapps/portal/frameset.jsp?tab_tab_group_id=2_1&url=%2Fwebapps%2Fblackboard%2Fexecute%2Flauncher%3Ftype%3DCourse%26id%3D_234627_1%26url%3D)

Input: Syllabus and laboratory manual revision, course teaching, laboratory session introduction, supervision of students and laboratory assistants, lab report grading and students' assessment.

Laboratory Coordinator (Lab Manager resigned in Summer of 2014)

Review of lab inventory of ingredients and supplies, revision of laboratory manual, preparation of laboratory demonstration videos for students' self-review and preparation for lab exercises, laboratory report grading and assessment, lab grad compilation and reporting.

Summer 2016

PHAR 519 PHARMACEUTICAL CALCULATIONS PHAR519
Pharmaceutical Calculations – **2 Credits**

Course URL:

[http://roosevelt.blackboard.com/webapps/portal/frameset.jsp?tab_tab_group_id= 2_1&url=%2Fwebapps%2Fblackboard%2Fexecute%2Flauncher%3Ftype%3DCourse%26id%3D_234719_1%26url%3D](http://roosevelt.blackboard.com/webapps/portal/frameset.jsp?tab_tab_group_id=2_1&url=%2Fwebapps%2Fblackboard%2Fexecute%2Flauncher%3Ftype%3DCourse%26id%3D_234719_1%26url%3D)

Input: Course syllabus review, teaching and students assessment. Preparation of self-review calculations videos and active learning in-class exercises, administration and assessment of weekly tutorials and weekly quizzes. Grading of assignments and compilation of course grades.

Fall 2016

PHAR520 Pharmaceutics I (Drug Delivery) & Laboratory – 3 Credits (Co-taught with Dr. M. Adeyeye & R. Panakant)

Course URL:

[http://roosevelt.blackboard.com/webapps/portal/frameset.jsp?tab_tab_group_id= 2_1&url=%2Fwebapps%2Fblackboard%2Fexecute%2Flauncher%3Ftype%3DCourse%26id%3D_234627_1%26url%3D](http://roosevelt.blackboard.com/webapps/portal/frameset.jsp?tab_tab_group_id=2_1&url=%2Fwebapps%2Fblackboard%2Fexecute%2Flauncher%3Ftype%3DCourse%26id%3D_234627_1%26url%3D)

Input: Course syllabus preparation and development, student mentorship, active learning and flipped classroom components development, study activity guidance document preparation, report supervision and assessment.

Winter 2016/17

PHAR521 Pharmaceutics II (Drug Delivery) & Laboratory – **3 Credits**
(Co-taught with Dr. M. Adeyeye, R. Panakanti)

Course URL:

[http://roosevelt.blackboard.com/webapps/portal/frameset.jsp?tab_tab_group_id= 2_1&url=%2Fwebapps%2Fblackboard%2Fexecute%2Flauncher%3Ftype%3DCourse%26id%3D_234627_1%26url%3D](http://roosevelt.blackboard.com/webapps/portal/frameset.jsp?tab_tab_group_id=2_1&url=%2Fwebapps%2Fblackboard%2Fexecute%2Flauncher%3Ftype%3DCourse%26id%3D_234627_1%26url%3D)

Advising Responsibilities

- Class of 2014 (Group 4):** Effective Summer 2011 – Five (5) students; all graduated in 2014
- Class of 2016 (Group 12):** Effective Summer 2013 - Five (5) students; all graduated in 2016, 1 with distinction
- Class of 2017 (Group 12):** Effective Summer of 2014 - Six (6) students; ongoing

Service, Administrative & Leadership Roosevelt University (RU) Committee

- 2016 – Present Member, Faculty Issues Committee of the Senate
- 2015 – 2016 COP Representative on RU Senate
- 2014 – Present Member, RU Budget and Planning Committee
- 2012 - 2013 College of Arts and Science (CAS) Dean Search Committee
- 2011 – 2014 Technology Advisory Group; RU Programs Assessment Rubrics Sub-Committee
- 2011 – Present RU Student Learning and Assessment Committee

College of Pharmacy Committees

- 2016 - Present Chair of Assessment Committee – June 2016 – till present
- 2015 – 2016 Chair of Scholarship Committee
- 2014 – 2016 Chair of International and Community Outreach Program (ICOP)
- 2011 – 2016 Member, Promotion and Graduation Committee
- 2012 - 2014 Member, International Study Abroad Committee (Now International and Community Outreach Program, ICOP)
- 2014 – 2015 Scholarship Committee
- 2011 – 2013 Integrated Studies Committee
- 2011 – Present Assessment Committee

Department of Biopharmaceutical Sciences

- 2016 – Present Member, T-35 Grant proposal committee
- 2014 – Present Graduate Study Task Force
- 2015 – 2016 Chair, Search Committee, Pharmaceuticals Laboratory Manager

Award/Honor

- 2014 **Biggest Heart Award**
(Faculty Awards, 2014) in recognition of caring and student teaching/engagement (Presented by the Class of 2016, Roosevelt University College of Pharmacy)
- 2005 **President's Research Initiative Award**
UTech, Jamaica (2005) (J\$100,000 + plaque in the Academic Affairs Division of the University of Technology, Jamaica)

Grants

2017	Intramural Grant for 2016-18 are Drs. Kurup, Tambe, Adebayo, Sakharkar, Majerczyk, Panakanti and Deb for their project entitled, Combination Therapy with Targeted Agents to Augment Anticancer Effects - \$12,500/cycle (Total \$25,000.00)
2016	Gastroplus from Simulations Plus, Inc., CA. \$12,500.00 (ongoing support with research software, activated every 6 months.
2015	Niosome encapsulation and <i>in vitro</i> antibacterial effect of Clarithromycin and Levofloxacin (Intramural research grant for, \$3000)
2015	Clinical Pharmaceutics – Integration of Science of dosage form design with the art of compounding and clinical application – Book Proposal (2015 Summer Research Grant, Office of Graduate Studies, Roosevelt university)
2015	Effects of Integration of Guided Pre-exposure to Electronic Recording of Calculations & Pharmacokinetics Courses with Face-to-Face Interaction on Student Learning & Performance (Teaching Innovations grant, \$1000)
2014	Intramural research grant for graduate student research training in “Quality, Stability and Beyond-Use Dating of Compounded Atenolol, Enalapril & Hydrochlorothiazide Combination Antihypertensive Pediatric Product (Summer 2014, \$2500)
2014	Design and Evaluation of Dosage Form for the Circadian Rhythmic Delivery of Drugs, NSF-STEP Summer 2014 (\$500)
2013/2014	Roosevelt University microgrant for assessment of student academic and demographic data as predictor of success in accelerated PharmD program, \$250)
2013	Dose metformin tablet formulation for immediate / controlled release – contracted by Roquette America Inc. (\$5000)
2012	Development of antiretroviral formulations for treating children with AIDS (\$1200)
2012	Design and Evaluation of Dosage Form for the Circadian Rhythmic Delivery of Drugs, NIH Bridge project, Summer 2012, 2013 (\$2400)
2012	Gastroplus from Simulations Plus, Inc, CA. \$62,525.00 (ongoing teaching & research software support (20 licenses, 3 months in Winter term for Biopharmaceutics/Pharmacokinetics course

2012 teaching, 6 licenses, 3 in Summer for modeling & Simulations Research)
 Phoenix WinNonlin from Pharsight Corporation (A Certara Company), CA. \$112,496 to date (ongoing teaching & research software support (20 licenses, 3 months in Winter term for Biopharmaceutics/Pharmacokinetics course teaching)

Scholarship, Professional, Creative work

Research Interests

- Pediatrics: Age-appropriate magisterial compounding of off-label prescription drug products for pediatrics and application of Biopharmaceutics and Pharmacokinetics principles in rational therapy of pediatric patient population through simulations and kinetic modeling
- Chronopharmaceutics: Design and evaluation of drug delivery system that mimics circadian pattern of diseases
- Application of smart biomaterials and pharmacokinetics principles in chronopharmaceutics of time-dependent and physiologic-cyclic conditions/disorders

Publications

Technical Reports

- **Adebayo, A. S;** Riley, C. K. & Anderson, N., Assessment of impediments to competition in the pharmaceutical sector in Jamaica: supplementary volume; comparative *in vitro* dissolution and biopharmaceutical properties of some multi-source antihypertensive drug products marketed in Jamaica, <http://idlbncidrc.ca/dspace/handle/123456789/34840> 2007
- Riley, C. K., **Adebayo, A. S.**, Wheatley, A. O and Asemota, H. N. Effect of glycosidic biomaterials extracted from yams (*Dioscorea* spp) on the dissolution profile of paracetamol from its compacts ICCE 15: 806 – 808.

Invited Technical Speech

A. S. Adebayo “**Quality Standards in the Starch Industry**” Plenary lecture at the 12th Plenary Meeting of the International Organization for Standardization (ISO/TC93 Committee on Starch) March 18, 2008

Manuscripts Under Preparation

1. **Harris T., Adebayo A.S., Bennett D. A., Olugbuyi Y., Scott C.** Age-appropriate Compounding of Drug Products for Managing Heart Disease in Pediatrics at the Bustamante Children Hospital, Jamaica (In press: *J. Applied Pharm. Sci.* (Oct. 2016)

2. **Pryce N. A., Adebayo A. S., Bennett D. A., Brown-Myrie E.** Design and evaluation of a new fixed-dose immediate release capsule of atenolol, enalapril maleate and hydrochlorothiazide (Under preparation: *British J. Pharm. Res.* January 2017)

3. **Adebayo A.S., Joshi A., Esseku F., Panakanti R., Adeyeye M. C.** Age-appropriate Pharmacokinetic Prediction for Fixed Dose Combination (FDC) of Lamivudine, Nevirapine and Zidovudine using Adult Data obtained in a Phase 1 Clinical Trial (Under preparation: *J. Appl. Pharm. Sci.* 2017)

Published Peer Reviewed Articles

1. **Jankie S., Jenelle J., Pereira L. P., Akpaka P., Pillai G., Adebayo A. S.** (2016) *Determining the infective dose of Staphylococcus aureus (ATCC 29213) and Pseudomonas aeruginosa (ATCC 27853) when injected intraperitoneally in Sprague Dawley rats*, In Press, **British J. Pharm. Research** 14(2): XX-XX, 2016; Article no. BJPR.30380 ISSN: 2231-2919, NLM ID: 101631759
2. **Jankie S., Jenelle J., Lexley P. P., Adebayo A. S., Gopalakrishna P.** (2016) *Acute toxicity of sorbitan monostearate (span 60) non-ionic surfactant vesicles (niosomes) in Sprague Dawley rats*, In Press, *British J. Pharm. Res.* 14(1): XX-XX, 2016; Article no. BJPR.29932 ISSN: 2231-2919, NLM ID: 101631759
3. **Okunlola A., Adebayo A.S., Adeyeye M. C.** (2016) Development of repaglinide microspheres using novel acetylated starches of bitter and Chinese yams as polymers **International Journal of Biological Macromolecules** (2016), <http://dx.doi.org/10.1016/j.ijbiomac.2016.10.032>
4. **Okunlola A, Adebayo AS and Adeyeye M.C.** (2014) Solid State Characterization of Two Tropical Starches Modified by Pregelatinization and Acetylation: Potential as Excipients in Pharmaceutical Formulations. **British Journal of Pharmaceutical Research**, 5 (1): 2231-2919
5. **Adebayo A. S.** and McFarlane N. (2014) Model-Based Bioequivalence assessment of a commercial Azithromycin Capsule against Pfizer Zithromax Tablet marketed in Jamaica. **Journal of Applied Pharmaceutical Science** Vol. 4 (10), pp. 062-068 <http://www.japsonline.com>
6. **Abayomi M., Adebayo A. S., Bennett D. A., Porter R., Shelly-Campbell J. and Dawkin G.** (2014) Phytochemical Testing and In vitro Antibacterial Activity of Bixa orellana (Annatto) Seed Extract. **British Journal of Pharmaceutical Research** 4(11): 1387-1399
7. **Abayomi, M., Adebayo, A. S., Bennett, D.,** (2013) In vitro antioxidant activity of Bixa orellana (Annatto) Seed Extract” **Journal of Applied Pharmaceutical Science**, 4(02): 101 – 106
8. **Satish J., Amusa S., Gopalakrishna P.** (2012) *In Vitro* Activities of Fluoroquinolones Entrapped in Non-ionic Surfactant Vesicles against Ciprofloxacin-Resistant Bacteria Strains **Journal of Pharmaceutical Technology & Drug Research** <http://www.hoajonline.com/journals/jptdr/content/pdf/5.pdf>
9. **Harvey A. C., Adebayo A. S., Wheatley A. O, Asemota H. N., Riley C. K.** (2012) Effects of Acetylation on the Micromeritics of Yam (*Dioscorea sp.*) Starch Powder for Pharmaceutical Application **West African Journal of Pharmacy** (2012) 23 (2) 40 – 50
10. **Anderson N., Adebayo A. S, Smith N.** (2012) Physicochemical properties of *Blighia sapida*

- (Ackee) oil extract and its potential application as emulsion base, *Afr. J. Pharm. and Pharmacol.* 6(3): 200-210 (<http://www.academicjournals.org/AJPP> DOI: 10.5897/AJPP11.696)
11. **Riley C. K.** and Adebayo A. S. (2010) A comparative investigation of the packing and flow properties of sweet potato (*Ipomoea batatas*) starches and their potential use in solid dosage formulations *Starch – Stärke*, 62: 285–293.
 12. **Adebayo, A. S.**, Brown-Myrie, E and Itiola, O. A. (2008) Comparative disintegrant activities of breadfruit starch and official corn starch *Powder Technology* (USA), 181: 98 – 103
 13. Riley, C. K., **Adebayo, A. S.**, Wheatley, A. O. and Asemota, H. N. (2008) The interplay between yam (*Dioscorea sp.*) starch botanic source, micromeritics and functionality in paracetamol granules for reconstitution. *European Journal of Pharmaceutics & Biopharmaceutics* 70: 326 – 334
 14. **Gossel-Williams, M.** & Adebayo, A. S. (2008) The “PharmWatch” Programme: Challenges to engaging the Community Pharmacists in Jamaica *Pharm. Practice*. Oct-Dec, 6 (4): 187 – 190
 15. **Riley, C.K.**, Adebayo, A. S., Wheatley, A. O. & Asemota, H. N. (2008) Surface properties of yam (*Dioscorea sp.*) starch powders and potential for use as binders and disintegrants in drug formulations *Powder Technology* 185: 280 – 285
 16. **Riley, C. K.**, Adebayo, A. S., Wheatley, A. O. and Asemota, H. N. (2006) Fundamental and Derived Properties of Yam (*Dioscorea Spp.*) Starch Powders and Implications in Tablet and Capsule Formulation *Starch/Starke* (Germany) 58: **418-424**.
 17. **Adebayo, A. S.** and Akala, E. O. (2005) Kinetics model for the *in vitro* release of an hydrophilic drug (Amodiaquine) from fat-based Suppositories *Journal of Arts, Science and Technology* 2: 1 – 11.
 18. **Babalola, C. P.**, Adebayo, A. S., Omotosho, A. & Oyeyinka, A. (2004) Comparative bioavailability study of a new quinine suppository and oral quinine in healthy volunteers *Tropical Journal of Pharmaceutical Research* 3 (1): 291-297
 19. **Adebayo, A. S.** and Itiola, O. A. (2003) Effects of Breadfruit and cocoyam Starch Mucilage Binders on Disintegration and Dissolution Behaviors of Paracetamol Tablet Formulations *Pharmaceutical Technology* (USA) (www.pharmtech.com), March: 78 – 90.
 20. **Adesina, S. K.**, Adebayo, A. S, Adesina, S. K. O., and Groning, R. (2003) New constituents of *Piper guineense* fruit and leaf *Die Pharmazie* (The Netherlands) 58: 423 – 425.
 21. **Adebayo, A. S.** and Itiola, O. A. Compression behaviour of breadfruit and cocoyam starches and the mechanical properties of their compacts. *West African Journal of Pharmacy* 16 (1): 42 – 50 (2002)
 22. **Adesina, S. K.**, Adebayo, A. S, Adesina, S. K. O., and Groning, R (2002) GC/MS Investigations of the minor constituents of *Piper guineense* stem. *Die Pharmazie* (The Netherlands) 57: 622 – 627
 23. **Adebayo, A. S.**, Gbadamosi, I. A., Adewunmi, C. O. and Adesina, S. K. (2001) Influence of Herbal Materials on Soap Foaming and Organolepsis *Nig. J. Nat. Prod. & Med.* 05: 41 – 44
 24. **Onyeji, C. O.**, Adebayo, A. S. and Babalola, C. P. (1999) Effects of absorption enhancers in chloroquine suppository formulations I: *In vitro* release characteristics *Euro. J. Pharm. Sc.* (Europe) 9: 131-136
 25. **Adebayo, A. S.** and Itiola, O. A. (1998) Properties of Starches obtained from *Colocasia*

- esculenta* and *Artocarpus communis* **Nig. J. Nat. Prod. & Med.** (Nigeria) 02: 29-33
26. **Adebayo, A.S** and Itiola, O. A. (1998) Evaluation of Breadfruit and Cocoyam starches as Exo-disintegrant in a Paracetamol Tablet Formulation **Pharm. Pharmacol. Commun.** (London) 4: 385-389

Book/Book Chapter

- Moji Christianah Adeyeye and Amusa Adebayo. Hard Shell Capsules in Clinical Trials in Pharmaceutical Dosage Forms: Capsules. Editors: L.L. Augsburger, S. W. Hoag. (*In press*)
- Clinical Pharmaceutics – Editors: Amusa S. Adebayo, Alexander McGregor, Remi Ojo (Under preparation)

Conference Abstracts/Presentations

1. **Pryce N.**, Adebayo A. S., Bennett D. A.; Brown-Myrie E. Formulation and evaluation of a fixed dose combination capsule containing atenolol, enalapril maleate and hydrochlorothiazide. **AACP Annual meeting 2016** Anaheim Marriott & Anaheim Convention Center Anaheim, California
2. **Adebayo A. S.** Chronotherapeutics & Chronopharmaceutics of asthma (Plenary lecture, CPE credits) - Caribbean Association of Pharmacists Annual Convention, Montego Bay, Jamaica, WI, July 29 – 31, 2016.
3. **Adebayo A.S.**, Salamah S., Foley K, Chahil, H., Lo C. J., Carlos J., Robles T., Liza K. Design and Evaluation of Novel Theophylline Delivery System for the Circadian Rhythmic Pattern of Asthma, **Caribbean Association of Pharmacists & Pharmaceutical Society of Jamaica Joint convention**, July 24-31, 2016 Jamaica, WI
4. **Harris T**, Adebayo A. S, Bennett D, Olugbuyi O, Scott C. *Extemporaneous Compounding of Captopril for Managing Cardiac Conditions in Children at a Major Pediatric Hospital in Jamaica*. **AAPS Annual Meeting & Exposition 2014. San Diego, California**
5. **Adebayo A.S**, Panakanti R, Venkatesan N, Popescus C, Adeyeye M.C. *Development of a Metformin Controlled Release Tablet and a New HPLC Assay for its Dissolution Profile Evaluation*. **AAPS Annual Meeting & Exposition 2014. AAPS Annual Meeting & Exposition 2014. San Diego, California**
6. **Okunlola A**, Adebayo A.S., Adeyeye M. C. *Solid State Characterization of Two Tropical Starches Modified by Pregelatinization and Acetylation: Potential as Excipients in Pharmaceutical Formulations*. **AAPS Annual Meeting & Exposition 2014. San Diego, California**
7. **Adebayo, A. S.** & Wilson, J. Need survey of post-qualification education requirements of Caribbean Pharmacists, AACP Annual Meeting, *Pharmacy Education 2013*, Chicago, IL
8. **Amusa Adebayo**, Fred Esseku, Anjali Joshi, Ravikiran Panakanti, Ruth Adewuya, Moji Adeyeye , Age appropriate pharmacokinetic prediction for fixed-dose combination (FDC) of lamivudine, nevirapine and zidovudine using data obtained in a phase 1 clinical trial, **2012 AAPS Annual Meeting and Exposition**, October 14 – 18, McCormick Place, Chicago, Illinois

9. **Amusa Adebayo**, Uday Kotreka, Ravikiran Panakanti, Ruth Adewuya, Moji Adeyeye, Simulated Ocular Bioavailability of Estradiol Based on Preclinical Data in Rabbits, **2012 AAPS Annual Meeting and Exposition**, October 14 – 18, McCormick Place, Chicago, Illinois October 15, 2012
10. Jankie S., **Adebayo A. S.**, Gopalakrishna P., *In Vitro* Activities of Floroquinolones Entrapped in Non-ionic Surfactant Vesicles Against Multi-drug Resistant Bacteria Strains, **Centennial Conference of the International Pharmaceutical Federation (FIP)**, Amsterdam, The Netherlands, October 3 – 8, 2012.
11. Noel McFarlane, **Amusa S. Adebayo** and Eugenie Brown-Myrie, Design and Evaluation of Amlodipine Besylate-Hydrochlorothiazide Immediate-release combination tablets **Centennial Conference of the International Pharmaceutical Federation (FIP)**, Amsterdam, The Netherlands, October 3 – 8, 2012.
12. Maxwell, J; **Lambert**, R; Laudenschach, K; Adeyeye, M; Rasty, S; Adebayo, A; Ali, F; Potempa, L; MacKinnon, G. **Highlights of Interprofessional Education at Roosevelt University College of Pharmacy (Poster)**, Annual AACP Meeting 14 – 18 July, 2012, Kisseemee, Florida.
13. **Amusa S. Adebayo**, Ravikiran Panakanti, Ruth Adewuya and Moji C. Adeyeye **Improvement of PharmD Students Performance in a Biopharmaceutics and Pharmacokinetics Course Using Simulation Software**, Annual AACP Meeting 14 – 18 July, 2012, Kisseemee, Florida.
14. Introduction to Phoenix WinNonlin, Pharsight Corporation, CA at Waltham, Massachusetts, November 1 – 3, 2011
15. Aderson-Foster, Naomi; **Adebayo, S. Amusa** and Justiz-Smith, Nilza. Emulsifying properties of Blighia sapida L. (Ackee) Oil; **2nd Conference in Innovation in Drug Delivery: From Formulation to Development through Innovative Evaluation Process**, 3 -6 October, 2010, Aix-en-Provence, France pg. 163
16. **Adebayo, A. S.**, Aderson-Foster, N. and Justiz-Smith, N. Extraction and Characterization of the Physico-chemical Properties of Blighia sapida (Ackee) Oil and its potential application as emulsion base; **2nd Conference in Innovation in Drug Delivery: From Formulation to Development through Innovative Evaluation Process**, 3 – 6 October, 2010, Aix-en-Provence, France, pg. 215
17. **Adebayo, A. S.** Comparative Bioavailability and Bioequivalence of a novel Azithromycin capsule with a commercial preparation, **30th Annual Convention of the Caribbean Association of Pharmacists**, 9 – 15 August, 2010, St. Lucia, West Indies
18. **Adebayo A. S.** & Bowman, A. Knowledge and Attitude of Health Professionals and their Practices towards HIV/AIDS Patients in St. Vincent and the Grenadines **Pharmaceutical Sciences World Congress of the FIP, Basel, Switzerland, August 29 – September 4, 2008.** (Oral)
19. **Adebayo, A. S.**, Riley, C., Harriott, K., Miller, D. and Anderson, N. Econo-availability Index for Antihypertensive Drug Product Selection in Decision Making in Pharmaceutical Dispensing **Pharmaceutical Sciences World Congress of the FIP, Basel, Switzerland, August 29 – September 4, 2008.** (Poster)

20. **Adebayo, A. S.** Contribution of Counterfeit Medicines to Toxicity 3rd Annual Scientific Conference of Caribbean Poison Information Network, Kingston, Jamaica May 31 – June 1, 2008
21. Pharmaceutical Sciences World Congress, Amsterdam, The Netherlands – April 22 – 26, 2007.
22. **Riley, C. K.**, Wheatley, A. O., Adebayo, A. S., Ahmad, M. H., Errol Y. St. A. Morrison, E. Y. A., and Asemota, H. N. Effect of micrometric properties on the *in vitro* digestibility of starches extracted from yams (*Dioscorea spp.*) grown in Jamaica. *West Indian Medical Journal* 55: 42 (2006)
23. **Riley, C.K.** Adebayo, A.S. Wheatley, A.O. and Asemota, H.N. Exploitation of yam (*Dioscorea spp.*) glycosidic biomaterials in paracetamol formulations. Proceedings from the 14th Conference on Composites and Nanoengineering, Colorado, USA, 43 (2006)
24. **C.K. Riley**, A.S. Adebayo, A.O. Wheatley and H.N. Asemota. Exploitation of Jamaican Yam Starches in the Pharmaceutical Industry for Sustainable and Economic Development. Proceedings from the 20th Scientific Research Council Annual National Conference on Science and Technology, Kingston, Jamaica, 15 (2006)
25. **C.K. Riley** and A.S. Adebayo. Density properties of sweet potato (*Ipomea batatas*) starches: potential as binders in pharmaceutical formulations. Proceedings from the Annual Science Symposium, Northern Caribbean University, Jamaica 14 (2006)
26. **C.K. Riley**, A.S. Adebayo, A.O. Wheatley, M.H. Ahmad and H.N. Asemota. Micromeritics of some Jamaican yam (*Dioscorea Spp.*) starch powders and implications in tablet and capsule formulation. Proceedings from the 7th Biennial Conference of the Faculty of Pure and Applied Sciences, University of the West Indies, Mona, Jamaica, 57 (2005)
27. **Adebayo, A. S.**; E. Brown-Myrie & O. Itiola, *Comparative investigation of disintegrant activities of breadfruit starch with official corn starch* “ Theme: **Particulate processes in the Pharmaceutical Industry, June 26-30, 2005, Montreal, Canada**, organized by the Engineering Conference International, Brooklyn, USA.
28. Riley, C. K., Wheatley, A. O., **Adebayo, A. S.**, Errol, Y. St., Morrison, A., Ahmad, M and Asemota, H. N. Implications of Amylose content and *in vitro* digestibility of native Jamaican yam (*Dioscorea sp.*) starches in the formulation of tablets and capsules for diabetics; University of the West Indies Diabetes Outreach Project 10TH Annual International Conference, March 4 – 7, 2004, Ocho Rios, Jamaica. Published in West Indian Medical Journal 53 (1): 46 (2004).
29. **Riley, C. K.**, Wheatley, A. O., Adebayo, A. S., Ahmad, M and Asemota, H. N. Industrial Exploitation of Native Jamaican Yam (*Dioscorea sp.*), Starches in Tablet Formulation for Diabetics, ASBMB Annual Meeting and 8TH IUMB Conference Boston, Massachusetts. June 12 – 16, 2004. Published in The FASEB Journal 18 (8): 45. Abstracts 1.1-147.3 (2004)
30. Premier Conference on Forced Degradation Studies, The Westin Princeton at Forrestal Village, Princeton, NJ, USA. February 24 – 25, 2004.
31. **Adebayo, A. S.** and Itiola, O. A. Effects of Breadfruit and Cocoyam Starch Powders as Endo-disintegrants in Paracetamol Tablet Formulations – A paper presented at the 8th Commonwealth Pharmaceutical Conference (Spotlight on Pharmacy Practice - research), Ocho Rios, Jamaica, 14th – 17th August, 2003.
32. **Adebayo, A. S.**, Itiola, O. A. Brown-Myrie, E. Development of Monographs of Breadfruit Starch for Pharmaceutical Use 1: Fundamental and Derived Properties – Paper presented at

the 17th Annual National Conference on Science and Technology, organized by the Scientific Research Council, Kingston 6, Jamaica, Nov. 2003.

33. **Adebayo, A. S.** and Itiola, O. A. Effect of Breadfruit and Cocoyam Starch Binders on Fluidity and Compressibility of Paracetamol Granules and the Mechanical Properties of their Tablets – A paper presented at the 16th Annual National Conference on Science and Technology, organized by the Scientific Research Council, Kingston 6, Jamaica. 29th Nov. 2002.

Students Mentoring in research and Scholarly Activity

At Roosevelt University

PharmD. /NIH Bridges Students

Summer 2012 - Chronopharmaceutics Project

- (i) Cheryl Raju - PharmD
- (ii) Betty Villagomez – NIH Bridge

Summer 2013 - Chronopharmaceutics Project (Cont'd)

- (i) Krista Foley – PharmD
- (ii) Safa Salamah – PharmD
- (iii) Janet Picasso – NIH Bridge

Summer 2014 - Chronopharmaceutics Project (Cont'd)

- (i) Harmeet Chahil – PharmD
- (ii) Christine Lo - PharmD
- (iii) Liza Kenny – NSF Bridge

Summer 2014 - Pediatric Extemporaneous Compounding

- (i) Jalila Aljahmi - PharmD
- (ii) Mohammad Alkhatib - PharmD

MSc Biotechnology, College of Arts & Science (CAS)

- (a) Rajvi Patel (MSc. Biotech, CAS) – Research thesis - Niosome encapsulation and *in vitro* antibacterial effect of Clarithromycin and Levofloxacin, May 2016 (ongoing)
- (b) Nickolas Nkuruka – Research Elective, DBS, CAS – Research Elective, November 2014 – March 2015
- (c) Monika Kamburova (MSc. Biotech, CAS) Research Elective, January 2016 – May 2016

At University of the West Indies (Mona and St. Augustine Campuses)

- (d) Satish Jankie (M. Phil.) Niosome encapsulation of Fluoroquinolones and their antibacterial activities; Converted to PhD April 2011 – University of the West Indies, St. Augustine Campus, Trinidad & Tobago, WI (Mentors: **Amusa S. Adebayo** & Geopalkrishna Pillai)
- (e) Cliff K. Riley (PhD, 2005) *Physicochemical characterization of starches from Jamaican yams (Dioscorea spp.) and assessment of their utilization as binders in paracetamol formulations* - University of the West Indies, Mona Campus, Jamaica, WI (Mentors: Helen Asemota, **Amusa Adebayo**, Andrew Wheatley) – Awarded August 2005

- (f) Alexia Harvey (PhD., 2013) Chemical Modification of Yam (*Dioscorea sp.*) Starches and their Potential Use in Pharmaceutical Formulations - University of the West Indies, Mona Campus, Jamaica, WI (Mentors: Helen Asemota, Andrew Wheatley, **Amusa S. Adebayo**) - Awarded May 2013

At University of Technology, Jamaica

- (g) Naomi Anderson-Foster (MPhil. 2009) Development of *Blighia sapida* (Ackee) oil as pharmaceutical base M.Phil. degree - University of Technology, Jamaica (Mentors: **Amusa S. Adebayo** & Justiz Nilza-Smith) – Awarded September 2009
- (h) Noel McFarlane (M. Phil., 2012) Design and evaluation of a tablet dosage form of amlodipine besylate in combination with hydrochlorothiazide - University of Technology, Jamaica, WI (Mentors: **Amusa S. Adebayo** & Eugenie Brown-Myrie) – Awarded September 2012
- (i) Abayomi, M.O. (M. Phil, 2014) Extraction, Characterization and Stability Kinetics of Annatto Coloring Fractions with Potentials for Application as Pharmaceutical Colorant (Mentors: Amusa S. Adebayo, Deon Bennett, Roy Porter, Janet Shelly-Campbell)
- (j) Harris, T. (M. Phil, 2014) Assessment of the current practices involving the use of re-formulated adult drug products in the management of children with heart disease at a major paediatric hospital in Jamaica ((Mentors: Amusa S. Adebayo, Deon Bennett, Oluwayomi Olugbuyi, Charmaine Scott)
- (k) Nickania Pryce (M.Phil., 2015) Formulation and *in vitro* studies of a fixed-dose combination antihypertensive immediate release dosage form of atenolol, enalapril maleate and hydrochlorothiazide (Mentors: Amusa S. Adebayo, Deon Bennett, Eugenie Brown-Myrie)

Summer Research Students Mentorship

Chronopharmaceutical Drug Delivery of Theophylline (PharmD students and NIH Bridge project students)

- **Summer 2014**

- Harmeet Chahil - PharmD
- Christine J. Lo - PharmD
- Liza Kenny - NSF-STEP

- **Summer 2013**

- Safa Salamah - PharmD
- Krista Foley - PharmD
- Josefina Carlos - NIH Bridges
- Thalia Robles - NIH Bridges

- **Summer 2012**

- Betty Villagomez - NIH Bridges
- Janette Picaso - NIH Bridges

PERIODICALS/NEWSPAPER REPORTS (4)

- **UTech goes high-tech** - University gets multimillion dollar equipment published: Thursday July 10, 2008
- Adebayo, A. S. - New Uses for breadfruit and dasheen starch *The Gleaner*, Wednesday July 30, 2003, pg. B12.
- Adebayo, A. S. - Health and Policy – Exploring lifestyle diseases – UTECH Feature in *Outlook Magazine*, Kingston, Jamaica, March 2004, pg. 32
- Adebayo, A. S. - Research at UTech **University of Technology, Jamaica (UTech) Communicator** vol. iii, Issue 4, March 30, 2004 pg. 4.

EDITORIAL/CONSULTANT ACTIVITIES (NEW OR CONTINUED)

- *AAPS PharmSciTech (Reviewer)*
- *AAPS Pharm Research (Reviewer)*
- *USP 34 – General Chapter (1118)*
- *E3 Journal of Biotechnology and Pharmaceutical Research (reviewer)*
- *Starch/Starke (Reviewer)*
- *The Caribbean Teaching Scholar (Editorial Board Member)*
- *Drug Development & Industrial Pharmacy (Reviewer)*
- *West Indian Medical Journal (Reviewer)*
- *West African Journal of Pharmacy (Reviewer)*
- *Journal of Pharmaceutical Technology & Drug Research (Reviewer)*
- *Scientific Journal International (SJI) (Editorial Board Member)*

PROFESSIONAL MEMBERSHIP POSITIONS

- Member, American Association of Pharmaceutical Scientists (since August 2012)
- Member, American Association of Colleges of Pharmacy (since October 2011)
- Member International Pharmaceutical Federation (FIP, Netherlands), 2005.
- Member, International Association of Pharmaceutical Technology (APV, Germany), 2004.
- Member, Education Committee of the Pharmaceutical Society of Jamaica (2004-2008)
- Member, Pharmaceutical Society of Nigeria 1990 – 2004
- Secretary, Osun State Pharmacists' Multipurpose Cooperative Society (1999 – 2002)
- Registered pharmacist, Pharmacy Council of Nigeria, September (1990)

OTHER ADMINISTRATIVE POSITIONS HELD

Services and Responsibilities to the University of Technology, Jamaica

2006 – 2009	Member, Academic Misconduct Investigation Appeal panel, University of Technology, Jamaica
2006 - 2009	Reviewer, Product registration dossiers and adviser to the Standards & Registration Division, Ministry of Health, Jamaica
2007 – 2009	Member, Education Committee of the Pharmaceutical Society of Jamaica
2006 – 2008	Chair, Faculty of Health & Applied Science Research Committee & Faculty Representative on the University Research Committee
2006 -2007	Member, University's Appointments & Promotions Steering Committee
2006 – 2007	Member, Committee that reviewed the University Research Policy document, University of Technology, Jamaica
2005 – 2006	Member, UTech 46 th Anniversary Planning Committee
2005 – 2006	Member, Balanced-Scorecard Analysis and Septennial Review Committee

2005 – 2006 Chair, Faculty of Health & Applied Science Postgraduate Committee & Faculty Representative on the University Post Graduate Committee

COMMUNITY/OUTREACH SERVICES IN JAMAICA

2004 – 2009 Consultant to The Scientific Research Council, Jamaica in formulation research & product development

2005 – 2009 Technical Assessor, Jamaica National Accreditation (JAANAC) Committee of the Bureau of Standards, Jamaica

2003 – 2009 Co-supervisor & mentor to Graduate Students in the Biochemistry & Biotechnology Departments of the University of the West Indies, Mona, Kingston, Jamaica

SERVICES AND RESPONSIBILITIES TO THE OBAFEMI AWOLOWO UNIVERSITY, NIGERIA

April 1992 – Aug. 2002 Pharmacist-in-charge of Conventional Drug Manufacturing

May 2001 – Aug. 2002 Member, Science and Technology Park Development Committee

Sept. 1995 – Aug. 2002 Faculty of Pharmacy Representative on the Board of Management of the Institute of Cultural Studies

Sept. 1995 – June 2002 Faculty representative on the Board of Management of the Institute of Public Health

COMMUNITY/OUTREACH SERVICES IN NIGERIA

1996 – 2001 **Consultant Pharmaceutical Formulation Development and Manufacturing Scientist** to JOLLITERS INDUSTRY LIMITED, Lagos Nigeria

April 1999 – Aug. 2002 **Secretary, Osun State Pharmacist's Multipurpose Co-operative Society**, Osogbo, Osun State

1995 – 2001 **Resource Person** to the North American African Company (NAAFCO), Lagos Nigeria on Quality Assurance, proof-of-concept and application of new analytical equipment

REFERENCES

Moji C. Adeyeye

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Roosevelt University, 1400 N Roosevelt Blv., Schaumburg, IL60173.
(Relationship: Work colleague)
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University of the West Indies, Mona, Kin. 7/Shaw Univ. USA
(Relationship: Research colleague)
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Amusa Adebayo
January 25, 2017