

# *Faculty CVs*



## CURRICULUM VITAE

**NAME:** Cyril V. Abobo

**DEGREE:**

Doctor of Pharmacy  
Florida A & M University  
College of Pharmacy & Pharmaceutical Sciences  
Tallahassee, Florida

Bachelor of Science/Pharmacy  
Texas Southern University  
College of Pharmacy & Health Sciences  
Houston, Texas

**ADDITIONAL  
TRAINING:**

American Association of Colleges of Pharmacy  
Fellowship (2004–2005)

University of Georgia, College of Pharmacy, Department of  
Pharmaceutics. Assay development, animal dosing techniques, and  
pre-clinical studies of anti-retroviral agents. (January – May, 1992)

**Licensure  
Certifications**

Texas State Board of Pharmacy  
Physical Assessment in Patient Care Management  
Nova Southeastern University, July 2002.  
Delivering Medication Therapy Management Services in the  
Community. American Pharmacists Association, May 2010.  
Pharmacy Based Immunization Delivery: Certificate Program for  
Pharmacists. American Pharmacists Association, October, 2011.

**PROFESSIONAL EXPERIENCE:**

- 1993–Present** Associate Professor, Pharmacy Practice  
Texas Southern University  
College of Pharmacy and Health Sciences
- 1993–2008** Part Time/Registry Pharmacist (Inpatient) – Weekends  
Ben Taub General Hospital  
Houston, Texas 77030
- 1988–1993** Assistant Professor, Pharmacy Practice  
Texas Southern University  
College of Pharmacy and Health Sciences
- 1988–Present** Clinical Pharmacy Preceptor  
Texas Southern University  
College of Pharmacy and Health Sciences  
Internal/General Medicine  
Michael E. DeBakey Veterans Affairs Medical Center  
Houston Texas
- 1987–88** Clinical staff pharmacist/Clinical Preceptor  
Ben Taub General Hospital  
Houston, Texas 77030
- 1985–86** Lecturer  
University of Benin  
School of Pharmacy  
Benin City, Nigeria
- 1983–85** Clinical staff pharmacist/Clinical Preceptor  
Ben Taub General Hospital  
Houston, Texas 77030

## RESEARCH/SCHOLARSHIP

### Publications

**Abobo CV**, Ma J, Liang D. Effect of menthol on nicotine pharmacokinetics in rats after cigarette smoke inhalation. *Nicotine Tob Res*. 2012: doi: 10.1093/ntr/ntr287.

John J, Robinson K, John M, Caballero J, Ma J, Liang D, **Abobo C**. Simultaneous LC-MS/MS determination of racemic warfarin and etravirine in rat plasma and its application in pharmacokinetic studies. Book Chapter: "Tandem Mass Spectrometry," ISBN 978-953-307-870-0. (in press)

Wei B, **Abobo CV**, Ma J, Liang D. Gender differences on pharmacokinetics of antipyrine in a simulated weightlessness rat model. *Aviat Space Environ Med* 2012;83:11-6.

**Abobo CV**, Wu L, John J, Joseph MK, Bates TR, Liang D. LC-MS/MS determination of etravirine in rat plasma and its application in pharmacokinetic studies. *J Chromatogr B* 2010;878:3181-6. Epub 2010 Sep 29.

**Abobo CV**, Wei B, Liang D. Stability of zonisamide in extemporaneously compounded oral suspensions. *Am J Health Syst Pharm*. 2009;66:1105-9.

**Abobo CV**, and Xian Yongming. Lack of pharmacokinetic interaction between dipyridamole and zalcitabine in rats. *Antiviral Res* 1997;34:A67.

**Abobo CV**, and Xian Yongming. Lack of pharmacokinetic interaction between dipyridamole and zalcitabine in rats. *Cell Mol Biol* 1997;43(7):1045-50.

Pinon M, McCants E, Egbunike IG, **Abobo CV**, and Osemene NI. Evaluation of the use of saquinavir in an HIV ambulatory care center. *Int Pharm Abstr* 1996;33:2286.

Nguyen T, and **Abobo CV**. Rate of phenytoin drug-induced toxicity at a private institution. *Int Pharm Abstr* 1996;33:2300.

Noujedehi MM, Baghaie A, and **Abobo C**. Correlation between serum creatinine and vancomycin dosing frequency in renal failure patients. *Int Pharm Abstr* 1996;33:2319.

Rowe AL, **Abobo CV**, Mccants ER, Egbunike I, Akpaffiong MJ, and Okafor KC. Frequency of chart-documented adverse drug reactions in AIDS patients treated in an ambulatory clinic. *Int Pharm Abstr* 1996;33:2270.

**Abobo CV**, Okafor KC, Ike EN, Rowe AL. HIV disease and opportunistic infections. HGASHP Newsletter 1995;17:1-5.

Bailey RE, **Abobo CV**, Okafor KC, McCants E, Enigbokan M. Monitoring warfarin therapy with the International Normalized Ratio. Int Pharm Abstr 1995;32:2346.

**Abobo CV**, Ni L, Schinazi RF, Liotta DC, Boudinot FD. Pharmacokinetics of 2',3'dideoxy-5-fluoro-3'-thiacytidine in rats. J Pharm Sci 1994;83:96-99

Robbins TJ, **Abobo CV**. HIV disease and opportunistic infections. US Pharm 1993;18:H10-H24

Okafor KC, **Abobo CV**. The multidisciplinary approach to chronic pain management. Anesth Today 1992;3:6-10.

Okafor KC, **Abobo CV**. Clinical management of cancer pain. Pract Gastroenterol 1991;15:26-29.

Okafor KC, **Abobo CV**. Clinical management of chronic cancer pain. J Natl Pharm Assoc 1991;35:13-17.

Okafor KC, **Abobo CV**. Formulary Update: Ondansetron, a new antiemetic for chemotherapy induced emesis. Pract Gastroenterol 1991;15:41,45-46.

Zenon III GJ, **Abobo CV**, Carter BL, Ball DW. Potential use of aldose reductase inhibitors to prevent diabetic complications. Clin Pharm 1990;9:446-57.

Zenon III GJ, **Abobo CV**, Carter BL, Ball DW. Potential use of aldose reductase inhibitors to prevent diabetic complications. Am J Hosp Pharm 1990;47:1659-60. (Clin Digest)

Cheung LK, **Abobo CV**, Galley MA. Human (rDNA) insulin allergy in a type II diabetic patient resistant to oral hypoglycemic agents. Int Pharm Abstr 1989;26:489.

Maswoswe JJ, Enigbokan M, Felder T, **Abobo C** et al. Appropriate nutritional assessment in patients prior to the initiation of TPN in four different hospitals: county, government, community, and private. Int Pharm Abstr 1993;30:2550

## **Presentations:**

Cheung LK, **Abobo CV**, Galley MA. Human (rDNA) insulin allergy in a type II diabetic patient resistant to oral hypoglycemic agents. American Society of Hospital Pharmacists Midyear Clinical Meeting, Dallas, Texas, December 1988. (abstr)

Cheung LK, **Abobo CV**, Galley MA. Human (rDNA) insulin allergy in a type II diabetic patient resistant to oral hypoglycemic agents. Texas Society of Hospital Pharmacists 41st Annual Seminar Presentations, San Antonio, Texas, April 1989. (abstr)

Owens G, Moss JT, Weber CR, **Abobo CV**. The development of clinical decision-based dosing algorithm for improving the accuracy of parenteral and oral theophylline usage. American Society of Hospital Pharmacists Midyear Clinical Meeting, Atlanta, Georgia, December 1989.

**Abobo, CV**. Review and update of biotechnology drugs: Therapeutic uses of: Biotechnology Product Conference, Houston, Texas, April 1990.

Evans C, Ike E, **Abobo CV**. Criteria-based H<sub>2</sub>-receptor antagonists use evaluation in a county hospital. American Society of Hospital Pharmacists Midyear Clinical Meeting, Las Vegas, Nevada, December 1990.

Morris CM, **Abobo CV**, Felder TB. Drug-induced modifications of zidovudine disposition in the rat. American Society of Hospital Pharmacists Midyear Clinical Meeting, New Orleans, Louisiana, December 1991.

**Abobo CV**, Ni L, Schinazi RF, Liotta DC, Boudinot FD. Pharmacokinetics of 2',3'-dideoxy-5-fluoro-3'-thiacytidine (FTC) in rats. American Association of Pharmaceutical Scientists Annual Meeting, San Antonio, Texas, November 1992. (abstr)

**Abobo CV**. Pharmacology of beta-blockers. Harris County Hospital District continuing education series, Houston, Texas, July 1992.

**Abobo CV**. Pharmacokinetics of 2',3'-dideoxy-5-fluoro-3'-thiacytidine (FTC) in rats. Third RCMI International Symposium, Workshop I: AIDS Biomedical and Clinical Research, Atlanta, Georgia, November 1992. (Podium)

**Cyril V. Abobo**, Kingsley C. Okafor, Husam Ghusn, and Golden J. Zenon III, Treatment of AIDS-Associated Bacillary Angiomatosis with Ciprofloxacin and Rifampin, RCMI International AIDS Symposium, November 3-4, 1994, San Juan, Puerto Rico.

Baghaie A, Bayat M, **Abobo CV**, Zenon III G, Bates TR, The effect of imipenem/cilastatin on acute cyclosporine nephrotoxicity in heart/lung transplant patients, Society of Critical Care Medicine 24th Education and Scientific Symposium, February 3, 1995, San Francisco.

Bailey RE, **Abobo CV**, Okafor KC, McCants E, and Enigbokan M. Monitoring warfarin therapy with the International Normalized Ratio, Annual ASHP Midyear Clinical Meeting and Exhibits, Las Vegas, Nevada, December 3-7, 1995

**Abobo, CV** and Xian, Yongming. Effect of dipyridamole on the pharmacokinetics of zalcitabine (ddC) in rats. AAPS Tenth Anniversary Annual Meeting and Exposition, Seattle, Washington, October 27-31, 1996

Taylor CT, **Abobo CV**, Larson RA, Scott VG, Stowe CD, Taft DR. Leadership frame analysis of administrators in academic pharmacy. American Association of Colleges of Pharmacy 2005 Annual Meeting and Seminars, Cincinnati, Ohio, July 9-13, 2005.

Kocman B, Taylor J, **Abobo C**, Milton S. Prevention of antidiabetic agent-induced hypoglycemia in the hospitalized patient: development of a multi-disciplinary tracking sheet. ASHP Midyear Clinical Meeting, Las Vegas, Nevada, December 3-8, 2005.

**Abobo C**, Liang D, Ma J, John JA, Bates TR. Effect of acute etravirine treatment on warfarin disposition kinetics in rats. American Association of Pharmaceutical Scientists Annual Meeting, New Orleans, Louisiana, November 14-18, 2010. (abstr)

**Abobo C**, Wu L, John J, Kizhakkekara M, Bates TR, Liang D. LC-MS/MS determination of etravirine in rat plasma and its application in pharmacokinetic studies. American Association of Pharmaceutical Scientists Annual Meeting, New Orleans, Louisiana, November 14-18, 2010. (abstr)

### **Formulary Reviews and Drug Monographs**

Ben Taub General Hospital (Pharmacy and Therapeutics Committee) – 1985, 1987-88

## **Grants/Contracts**

Felder TB, **Abobo CV** (co-investigator). Drug-induced modifications of AZT disposition in the rat. Granted by AMHPS AIDS Consortium: \$9,000. Grant #5P20 AI29360-03S1.

Faculty development grant at the University of Georgia, Department of Pharmaceutics. Granted by RCMI: \$37,189.

Lewis III H (Principal investigator), **Abobo CV** (Co-investigator), subproject (AIDS cluster) of RCMI. AIDS cluster 1991-92: \$171,066 (1991-94: \$601,742).

**Abobo CV**. Effects of allopurinol on didanosine-induced hyperuricemia. Texas Southern University seed grant: \$6,100.

Abobo, CV (Principal Investigator) Effect of protease inhibitors and dipyridamole on the disposition kinetics of dideoxynucleosides, 1995-96: \$192,946 - NIH/NCCR-RCMI #2G12RR03045-08.

1996-97: \$60,819 - Supplement

1998-99: \$45,955 - Supplement

## **AMHPS Junior Investigator travel grants**

1990 - \$1283

1991 - \$936

1992 - \$1136

## **Journal Review (Referee)**

J Natl Med Assoc

Biopharmaceutics and Drug Disposition journal

TSU Faculty Research Journal

## **Professional Societies**

American College of Clinical Pharmacy

American Association of Colleges of Pharmacy

# VERONICA B. AJEWOLE, PHARM D, BCOP

3100 Cleburne Street, NSB Rm 123, Houston, Tx, 77004  
Veronica.ajewole@tsu.edu  
713-313-1217

## PROFESSIONAL EXPERIENCE

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Assistant Professor of Pharmacy Practice July 2017  
College of Pharmacy and Health Sciences  
Texas Southern University, Houston, TX

Clinical Pharmacist Specialist – Oncology July 2017  
Houston Methodist Hospital, Houston, TX

## POSTGRADUATE TRAINING

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ASHP-accredited PGY2 Oncology Pharmacy Residency July 2016 - July 2017  
Houston Methodist Hospital, Houston, TX  
Residency Program Director: Hanna Zaghoul, PharmD, BCOP

ASHP-accredited PGY1 Pharmacy Residency Jun 2015 - Jun 2016  
Houston Methodist Hospital, Houston, TX  
Residency Program Director: Thomas Schwartz, PharmD, MBA, BCPS

## EDUCATION

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**Doctor of Pharmacy** (Summa Cum Laude) Aug 2011 - May 2015  
Texas Southern University, Houston, TX

**Pre-Pharmacy**  
Houston Community College Sept 2009 - Jul 2011  
Texas Southern University, Houston, TX Jan 2011 - May 2011

**Bachelor of Science in Biochemistry** Aug 2001 - Nov 2006  
University of Ado-Ekiti, Ekiti State, Nigeria

## PROFESSIONAL EXPERIENCE

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### PGY2 ONCOLOGY PHARMACY PRACTICE ROTATIONS

Palliative care June 2017  
Preceptors: Karina Ramirez, MD; Hanna Zaghoul, PharmD, BCOP

Sarcoma (The University of Texas MD Anderson Cancer Center) May 2017  
Preceptor: Chrystia Zobniw, Pharm.D., BCPS, BCOP

Longitudinal Hematology Clinic April 2017 - June 2017  
Preceptors: Ravi Pingali, MD; Swaminathan P Iyer, MD; Amy Schneider, PharmD, BCOP

Medical Oncology Clinic Preceptor: Edward Mclean, PharmD, BCOP	April 2017
Hematology Preceptor: Eleanor Hobaugh, PharmD, BCOP	Mar 2017
Medical Oncology Preceptor: Hanna Zaghoul, PharmD, BCOP	Feb 2017
Longitudinal Breast Clinic Preceptor: Angel Rodriguez MD; Tejal Patel, MD; Amy Schneider, PharmD, BCOP	Jan 2017 - Mar 2017
Clinical Trials and Design Preceptors: Rhetta Lambert, MBA, HCA; Hanna Zaghoul, PharmD, BCOP	Jan 2017
Project/Research Preceptor: James Cox, PharmD	Dec 2016
Medical Oncology Clinic Preceptor: Amy Schneider, PharmD, BCOP	Nov 2016
Longitudinal Medical Oncology Clinic Preceptors: Eric Bernicker, MD; Amy Schneider, PharmD, BCOP	Oct 2016 - Dec 2016
Stem Cell Transplant Preceptor: James Cox, PharmD	Oct 2016
Oncology Pharmacy Operations Preceptor: David Curlee, RPh	Sept 2016
Outpatient Infusion Clinic Preceptor: Amy Schneider, PharmD, BCOP	Aug 2016
<b>PGY1 PHARMACY PRACTICE ROTATIONS</b>	
Emergency Department Preceptor: Daniela Espino, PharmD, BCPS	June 2016
Solid Organ Transplant Preceptor: Samantha Kuten, PharmD	May 2016
Nutrition Support (University of Texas MD Anderson Cancer Center) Preceptor: Jacob Hall, PharmD, BCNSP	Apr 2016
Critical Care Preceptor: Becky Halfon, PharmD	Mar 2016
Drug Information and Management Preceptor: Alex Varkey, PharmD, MS; Michael Liebl, PharmD, BCPS	Feb 2016

Infectious Disease Preceptor: Judy Ikwuagwu, PharmD, BCPS	Jan 2016
Cardiology Preceptor: Brian Parrish, PharmD	Nov 2015
Medication Safety Preceptor: Vidya Saldivar, PharmD	Oct 2015
Internal Medicine Preceptor: Phuong Nguyen, PharmD, BCPS	Sept 2015
Inpatient Oncology Preceptor: Hanna Zaghoul, PharmD, BCOP	Aug 2015

## **WORK EXPERIENCE**

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### **COMMUNITY PHARMACY**

<b>Pharmacy Intern</b> CVS Pharmacy, Store #08335 Pharmacist in charge: Janna Evans, RPh	May 2012 - May 2015
<b>Certified Pharmacy Technician</b> Walgreens Pharmacy, Store #7491 Pharmacist in charge: Kim Nguyen, RPh	Sept 2009 - May 2012

### **DRUG MANUFACTURING EXPERIENCE**

<b>Quality Control Officer</b> SKG-Pharma Ltd, Nigeria	Feb 2008 - Apr 2009
<ul style="list-style-type: none"> <li>• Upgrading systems, documents and manufacturing processes to International Organization for Standardization (ISO) standards</li> <li>• Quality analysis of raw materials and finished drug for safety, purity and effectiveness</li> </ul>	

### **SELECT PRESENTATIONS**

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Implementation of Oral Chemotherapy Medication Therapy Management Clinic in an Outpatient Cancer Center 5th Annual Houston Methodist Cancer Symposium	Aug 2018
Implementation of electrolyte replacement protocol in a large academic institution: HOPA conference	March 2018
Characterization of Chemotherapy-Induced Peripheral Neuropathy: A Prospective Pilot Study 5th Annual Houston Methodist Cancer Symposium	Aug 2017

Clinical pearl of drug interaction in oncology; Fall 2017 TSU preceptor CE	Oct 2017
Nutrition Support: Oncology patient focus ACPE accredited continuous education presentation (Live and recorded) Audience: Pharmacists, pharmacy residents and interns Preceptor: Michael Sirimaturos, PharmD, BCNSP, BCCCP	Oct 2016
Self-reported Medication Adherence among Psychiatric Patients Platform presentation of PGY1 residency project Audience: Pharmacists and pharmacy residents at the 2015 Midwest Pharmacy Resident Conference, Omaha, Nebraska	May 2016
Oncology Year in Review ACPE accredited continuous education presentation (Live and recorded) Audience: Pharmacists, pharmacy residents and interns Preceptor: Hanna Zaghoul, PharmD, BCOP	May 2016
Review of ASPEN 2016 guideline on Nutrition Support Audience: Pharmacists, pharmacy residents, and pharmacy interns at The University of Texas MD Anderson Cancer Center	April 2016
Implementation of process improvement project: rituximab rapid infusion at Houston Methodist Hospital System Audience: Physicians, pharmacists, pharmacy residents, and nurses	April 2016
Pharmacology and pharmacotherapy of Hepatitis B Didactic lecture for 3 <sup>rd</sup> year pharmacy students	Nov 2015
In-service: High dose methotrexate and leucovorin rescue Audience: Oncology patient care unit nursing staff	Aug 2015
Overview of Diffuse B-Cell Non-Hodgkin's Lymphoma Pharmacotherapy class presentation for 3 <sup>rd</sup> year pharmacy students	Oct 2014
Neoadjuvant therapy for Breast Cancer Pharmacotherapy class presentation for 3 <sup>rd</sup> year pharmacy students	Oct 2014
Principle of Drug Actions II Tutoring session for 1 <sup>st</sup> and 2 <sup>nd</sup> year pharmacy students	Spring 2012, Spring 2013
Principle of Drugs Actions III Tutoring session for 2 <sup>nd</sup> year pharmacy students	Fall 2012

## **GRANT SUPPORT**

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Implementation of Breast Cancer Screening and Prevention Center at TSU with the goal of increasing breast cancer education, early diagnosis and decrease in breast cancer related deaths in 3<sup>rd</sup> ward community  
Susan G. Komen Breast Cancer Foundation Community grants program:  
**Ajewole V (Co-Program Director)**

Apr 2018 – Mar 2019

Implementation of Oral Chemotherapy Medication Therapy Management Clinic in an Outpatient Cancer Center  
Study Site: Houston Methodist Hospital Outpatient Cancer Center, Houston, Tx.  
Seed grant award: **Ajewole V (PI)**; Agency: Texas Southern University

## **RESEARCH EXPERIENCE**

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### **PGY2 Oncology pharmacy residency major project**

Characterization of chemotherapy-induced peripheral neuropathy: A prospective pilot study  
Preceptors: Keltly Baker, MD; James Cox, PharmD

Jul 2016 - Jun 2017

### **PGY2 Oncology pharmacy residency minor project**

Electrolyte replacement protocol in the outpatient cancer infusion center  
Preceptor: Amy Schneider, PharmD, BCOP

Jul 2016 - Jun 2017

### **PGY1 pharmacy residency major project**

Self-reported Medication Adherence among Psychiatric Patients: Evaluation of an In-hospital Coaching Session by a Clinical Pharmacist  
Preceptor: Saadia Basit, PharmD, BCPP

Jul 2015 - Jun 2016

### **PGY1 pharmacy residency medication safety/minor project**

Rapid rituximab infusion: Process evaluation and implementation across Houston Methodist Hospital System  
Preceptor: Jose Murillo, PharmD, BCOP, MBA, MHA

Jul 2015 - May 2016

### **Research Fellow**

Research Fellowship, The University of Texas MD Anderson Cancer Center  
National Cancer Institute funded research experience in cancer prevention training program  
Principal Investigators: Guang Peng, MD, PhD; Shine Chang, PhD

Spring 2014

- Evaluating human DNA helicase 2 as a molecular target in cancer prevention

### **Research Assistant**

Translational Research, Texas Southern University, Houston, TX  
Principal Investigator: Rodney Hunter, PharmD, BCOP

Fall 2013

- Everolimus: a review of its efficacy in prophylaxis of liver transplant rejection

### **Research Student**

Research Program, The University of Texas MD Anderson Cancer Center  
Principal Investigator: Zahid Siddik, PhD

Summer 2013

- Study of the interaction of DNA and platinum compounds using agarose gel electrophoresis

### **Research Assistant**

Drug Discovery Research, Texas Southern University, Houston, TX  
Principal Investigator: Omonike Olaleye, PhD

Sept 2011 - May 2014

- *Enterococcus faecalis* methionine aminopeptidase as a novel antibacterial target
- Inhibition of methionine aminopeptidase in *Trypanosoma brucei*

## SELECT PUBLICATIONS

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Jenna M Solomon, **Veronica B Ajewole**, Amy M Schneider, Manvi Sharma and Eric H Bernicker. Evaluation of the prescribing patterns, adverse effects, and drug interactions of oral chemotherapy agents in an outpatient cancer center. *J Oncol Pharm Practice* 0(0) 1–6. DOI: 10.1177/1078155218798150

Qian Qin, **V. Ajewole**, Tiffany G Sheu, Rachel Donohue, and Monisha Singh. Successful treatment of a stage IIIC small-cell carcinoma of the ovary hypercalcemic subtype using multi-modality therapeutic approach. *ecancer* 2018, 12:832  
<https://doi.org/10.3332/ecancer.2018.832>

**V. Ajewole**, Amy Schneider. Development and Implementation of Electrolyte Replacement Protocol in the Outpatient Oncology Infusion Centers of a Large Academic Healthcare System. *J Oncol Pharm Practice* 2018, Vol. 24 2(supplement) 21

**Ajewole, V**; Edmondson, Lindsay; Mclean, Edward; Heyne, Kirk; Rice, Lawrence. New Formulation of Bendamustine and Occurrence of Phlebitis: A Report of Two Unique Patient Cases. *J Hematol Oncol Pharm.* 2018; In press

F.L. Oyetayo, V.O. Oyetayo and **V. Ajewole**, 2007. Phytochemical Profile and Antibacterial Properties of the Seed and Leaf of the Luffa Plant (*Luffa cylindrica*). *Journal of Pharmacology and Toxicology*, 2: 586-589

## SELECT POSTER PRESENTATIONS

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**Ajewole V**, Basit S, Colavecchia A, Chau J, Chung H, and Swan J Dec 2015  
 Self-reported Medication Adherence among Psychiatric Patients: A Retrospective Evaluation of a Prospective Intervention of In-hospital Coaching Session by a Clinical Pharmacist  
 • 50th American Society of Health-System Pharmacists (ASHP) Midyear Clinical Meeting

**Ajewole V**, Payton E, and Swan J Dec 2014  
 Comparison of the discriminative ability of APACHE II and SAPS II in predicting in-hospital mortality in a surgical and liver intensive care unit  
 • 49<sup>th</sup> American Society of Health-System Pharmacists (ASHP) Midyear Clinical Meeting

**Ajewole V** and Peng G April 2014  
 Drug inhibitory studies of Nuclease in Osteosarcoma cells  
 • Texas Society of Health-System Pharmacists (TSHP) Clinical Meeting

**Ajewole V** and Hunter R Dec 2013  
 Everolimus: a review of its efficacy in prophylaxis of liver transplant rejection  
 • 48<sup>th</sup> American Society of Health-System Pharmacists (ASHP) Midyear Clinical Meeting

Discovery of inhibitors of MetAP 1 from *Enterococcus faecalis*

- 13<sup>th</sup> Research Centers in Minority Institutions (RCMI) International Symposium on Health Disparities

## **SCHOLARSHIPS**

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Research Excellence Scholarship	Spring 2015
TEVA Pharmaceuticals Scholarship	Spring 2015
Excellence in Achievement Scholarship	Spring 2015
Cardinal Health Scholarship	Spring 2014
Wal-Mart Pharmacy Scholarship	Fall 2013
Dr. William B. Harrell Scholarship	Spring 2012
Wooten Scholarship	Spring 2012
University Education Scholarship	1999 - 2006

## **HONORS AND AWARDS**

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ASHP Clinical Skills Competition, 3 <sup>rd</sup> Place Texas Southern University	Fall 2014
The Honor`s College, Texas Southern University	Spring 2014
Rho Chi Pharmacy Academic Honor Society	Fall 2013
ASHP Clinical Skills Competition, 1 <sup>st</sup> Place Texas Southern University	Fall 2013
ASHP National Clinical Skills Competition	Fall 2013
Wal-Mart Business Plan Competition, 1 <sup>st</sup> Place	Fall 2013

## **PROFESSIONAL AND LEADERSHIP EXPERIENCE**

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Hematology Oncology Pharmacy Association	2016 - present
Rho Chi Pharmacy Academic Honor Society	2014 - present
• Chair, Mentoring Committee (2014 - 2015)	
American College of Clinical Pharmacy	2013 - present
American Society of Health-System Pharmacists	2013 - present
Texas Society of Health-System Pharmacists	2013 - present
American Pharmacists Association - Academy of Student Pharmacists	2012 - 2015
• Houston Area Pharmacy Liaison (2013 - 2014)	
Class of 2015 Student Leader, Texas Southern University	2011 - 2013

## **LICENSURE AND CERTIFICATION**

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Texas Pharmacy Preceptor, License # 56684	June 2016
Academic Teaching Certification, University of Houston	June 2016
Registered Texas Pharmacist, License # 56684	July 2015
Advanced Cardiovascular Life Support	Aug 2015 - present
Pediatrics Advanced Life Support	Jul 2015 - present
Basic Life Support for Healthcare Providers	Aug. 2011 - present
National Intravenous Training Program for Pharmacists	Oct 2012 - present
Pharmacy-Based Immunization Delivery Certification	Jul 2012 - present

**References available upon request**

**PROFESSOR M. J. AKPAFFIONG**  
8311 Port Branch Drive  
Richmond, Texas 77406

E-mail: akpaffiong\_mj@tsu.edu

Phone: 713-313-7571.

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**EDUCATION**

<b>SCHOOL</b>	<b>DEGREE</b>	<b>YEAR</b>	<b>MAJOR</b>
Dept. of Pharmacy and Pharmacology, <b>University of Bath,</b> Bath, England	Ph.D.	1982	Pharmacology
Department of Pharmacology, <b>University of Bath,</b> Bath, England	M.Sc.	1979	Pharmacology
College of Pharmacy, <b>University of Southern California,</b> Los Angeles, CA	Pharm. D.	1974	Pharmacy
College of Pharmacy and Health Sciences, <b>Texas Southern University,</b> Houston, Texas	B.S.	1972	Pharmacy

**POST-DOCTORAL EDUCATION AND PROFESSIONAL DEVELOPMENT**

**Baylor College of Medicine, Houston, Texas.**

Five years Post-Doctoral Research in Cardiovascular Pharmacology in the laboratory of professors Addison A. Taylor and Paul Vanhoutte,

Research was funded by a grant from National Heart, Lung and Blood Institutes (NHLB), National Institute of Health (NIH).

Research Project: Leukocytes and Control of Vascular tone in Normal and Injured Arteries.

**Research Grant Awards**

1992-1993:	72, 253.00 dollars
1993-1994	75,542.00 dollars
1994-1995	76,000.00 dollars
1995-1996	78,000.00dollars
1996-1997	80,000.00 dollars

- 1977 - 1981:** Awarded Scholarship by the government of the Federal Republic of Nigeria.
- 1972 - 1974:** Awarder Scholarship by the Government of Cross River State. State, Nigeria.
- 1971 - 1979:** Member of the Dean's Honor Roll, College of Pharmacy and Health Sciences, Texas Southern University, Houston, Texas.
- 1971:** Selected as "Who's Who Among Students in American Universities and Colleges".

#### BOARD CERTIFICATION:

**1974: BOARD CERTIFIED PHARMACIST IN THE STATE OF CALIFORNIA.**

**1982. REGISTERED PHARMACIST IN NIGERIA.**

#### RESEARCH GRANTS

1. National Heart, Lung and Blood Institute (NHLBI), National Institute of Health (NIH). "Leukocytes in the Control of Vascular Tone in Normal and Injured Arteries".
2. Cooperative Studies Programs:
  - (a) Between Veteran Affairs Medical Center, Baylor College of Medicine and Texas Southern University (2000):  
To investigate "Application of Population Pharmacokinetic Analysis to a large scale Clinical Efficacy Trial Comparing a Testosterone Gel versus a Testosterone Patch in Hypogonadal Men".
  - (b) Between Texas Southern University and Baylor College of Medicine and Forest Laboratories:  
"Reactivity of Human Coronary and Uterine Arteries to Selective 5-HT<sub>1D</sub> vs 5HT<sub>1B/1D</sub> receptor agonists in Vitro (Addison A. Taylor, M. Akpaffiong & Gupta).
  - (c) Received several grants from Texas Southern University.

#### PUBLICATIONS

1. **Akpaffiong, M. J., Lawson, M. W., Kunik, M. E. (2008):**  
Antidepressant-Associated Side Effects in Older Adult Depressed Patients  
GERIATRICS 63: Vol. 4, pg. 18 - 23.

11. **Akpaffiong, M. J. (1991):**  
Neuroleptic Malignant Syndrome: A Complication of Neuroleptic and Drug Abuse  
**PSYCHIATRIC QUARTERLY 62:299 - 309.**
12. **Akpaffiong, M. J. (1998):**  
Management of Hypertension In Patients With Stroke: The Role of the Pharmacist.  
**JOURNAL NPHA. Vol. 1, pg. 11 - 16.**
13. **Akpaffiong, M. J., et al (1986):**  
Effect of Pyrimethanine on Growth and Palate Formation in the Rat.  
**WEST AFRICAN J. ANATOMY. Vol. 1, pg. 33 - 36.**
14. **Anassi, E. O., Egbunike, I. G., Akpaffiong, M. J., et al (1994):**  
Developing and Implementing Guidelines to Promote Use of Fluconazole Therapy in an AIDS Clinic –  
**HOSP. PHARM. 29 (6): 576 - 586.**

## **ABSTRACTS**

1. **Akpaffiong, M. J. (Puerto Rico - 2005):**  
The Role of Religion and Witch-craft in Stroke. Associated Deaths among Africans.  
ISHIB.
2. **Akpaffiong, M. J. et. al. (1981):**  
Dopamine-induced Natriuresis: An Effect Medicated Via the Adrenal Gland.  
**BRITISH JOURNAL OF PHARMACOLOGY 73:30**
- 2a. **Addison A. Taylor, Akpaffiong, M.J. 1997.**  
Impaired Relaxation responses of Wistar-Kyoto(WKY) or Spontaneously Hypertensive (SHR) Aortae To Neitrophils (PMNs) From SHR is Only Endothelium Independent, Maastricht, The Netherlands,
3. **Akpaffiong, M. J. (1995):**  
Anthihypertensive and Vasodilatory Properties of Aminotriazole.  
**AMERICAN MOURNAL OF HYPERTENSION 8:113A.**
4. **Akpaffiong, M. J. (1996):**  
Impaired Relaxing Factor Production by SHR Neutrophils.  
**JOURNAL OF CLINICAL PHARMACOLOGY AND THERAPEUTICS. Vol. 59, page 138.**

4A

1. **Akpaffiong, M. J. et al (1997):**  
Impaired Relaxation of Spontaneously Hypersensitive Rat's Aortas to Neutrophils from SHR and WKY Rats.  
AMERICAN SOCIETY OF HYPERTENSION, NY.
2. **Akpaffiong, M. J. et al (1996):**  
Impaired Relaxing Factor Production by SHR Neutrophils.  
AMERICAN SOCIETY OF CLINICAL PHARMACOLOGIST, FLORIDA.
3. **Akpaffiong, M. J. et al (1995):**  
Anthihypertensive and Vascular Properties of Aminotriazole.  
AMERICAN SOCIETY OF HYPERTENSION, NY.
4. **Akpaffiong, M. J. et al (1979):**  
Factors Affecting the Release and Excretion of Dopamine in the Rat Kidney.  
BRITISH SOCIETY OF PHARMACOLOGY, LONDON.
5. **Akpaffiong, M. J., Taylor, A.A. et al (1993):**  
Impairment of the Carotid and Renal Endothelium-Dependent Vascular Relaxation after Myocardial Infarction is Neutrophil Dependent.  
FASEB CONFERENCE, ANAHEIM, CA.
6. **Akpaffiong, M. J. et al (1992):**  
Dysfunctional Endothelium in Spontaneously Hypertensive Rats.  
ASSOCIATION OF BLACK CARDIOLOGIST CONFERENCE, ANAHEIM, CA.
7. **Akpaffiong, M. J. et al (1979):**  
The Relationship between Dopamine and the Excretion of Water and Sodium in the Rat.  
BRITISH SOCIETY OF PHARMACOLOGY, SCOTLAND, GREAT BRITAIN.
8. **Akpaffiong, M. J. et al (1980):**  
The Effect of Dopamine on Urine Composition in the Adrenalectomized Rat.  
BRITISH SOCIETY OF PHARMACOLOGY, BRISTOL, ENGLAND.
9. **Akpaffiong, M. J. (1985):**  
"Palm-Wine" Induced Liver Dysfunctioning among Nigerians.  
INTERNATIONAL CONFERENCE ON ALCOHOL, JERUSALEM, ISREAL.
10. **Akpaffiong, M. J. et al (1984):**  
Use of Nifedipine in the Rapid Reduction of Blood Pressure.  
Conference, PHARMACOLOGY SOCIETY OF NIGERIA.
11. Akpaffiong, M.J. 1989: Compliance to Anti-hypertensive Drug Therapy.  
National Conference on High Blood Pressure Control. Lake Buena Vista, Florida.
12. **Sung, GK and Akpaffiong MJ(1989).** Individual Variability to Lithium Therapy

**1991: Ime Enwere:** "Evaluation of Mood Stabilizers in the Management of Bipolar Disorder".

**1990: Gwen Owens.** "Evaluation of Antihypertensive Therapy in Blacks."

**1989: - Elizabeth Chime.** "Compliance to Hypertensive Drug Therapy by Blacks".

**1988: M. Mutangadura:** "Side Effects of Neuroleptics in Psychiatric Patients with a History of Substance Abuse".

**1987 - 1999:** Served as Committee Member for over 20 Pharm. D. Students Research Projects in the College of Pharmacy and Health Sciences, TSU.

**1995:** Committee Member for Ph. D. Candidate - **Evaristus Enongene.**

Research Topic: "Effect of Sodium Thiosulfate Antidotal Action Against Subacute Acrylonitrile Exposure in Male Rats: Modulation of Glial Fibrillary Acidic Protein and Gluthathione Levels". Ph.D. Thesis.

**1996:** Committee Member for M.A. Candidates - **Mario Holloman.**  
"Neurotoxicology for 1,2-Dichloroethane in Rats".

## **COMMITTEE ASSIGNMENTS**

**2000 - 2008:** Promotion and Tenure Committee: College of Pharmacy and Health Sciences, Texas Southern University.

**2011-present:** Chairman P & T

**1996 -2014:** Faculty Senate (Member): Texas Southern University.

**1994 - 20017:** Admission Committee: College of Pharmacy and Health Sciences, Texas Southern University.

**1992 - 1994:** Faculty Assembly: Texas Southern University.

**1995 - 1998:** Graduate Council: Texas Southern University.

## **Professional Societies**

- ◆ International Society of Hypertension in Blacks
- ◆ West African Pharmacology Society
- ◆ American Society of Hypertension

**Uche Anadu Ndefo, Pharm.D., BCPS**  
3100 Cleburne St, Houston TX 77004  
Email: [anaduun@tsu.edu](mailto:anaduun@tsu.edu) Phone: (713)313-1223

## CURRICULUM VITAE

### EDUCATION

Doctor of Pharmacy	2000 – 2003
<i>University of South Carolina, Columbia</i>	
Pre-Pharmacy	1998 – 2000
<i>University of South Carolina, Columbia</i>	

### LICENSURE/CERTIFICATIONS

Board Certified Pharmacotherapy Specialist	2007; recertified 2014
Active Pharmacy License in South Carolina and Texas	
Pharmacy Immunization Delivery Certification	
Cardiopulmonary Resuscitation Basic Life Sciences Certified	Expires June 2019
Certificate of Teaching for Health Professors	2015

### PROFESSIONAL EXPERIENCE

Associate Professor	Aug 2013 – Present
Assistant Professor	Jul 2007 – Jul 2013
Department of Pharmacy Practice and Clinical Health Sciences Texas Southern University, College of Pharmacy & Health Sciences	
<i>Experiential Teaching</i>	January 2016 - Present
Pharmacy Analytics, Community Health Choice, Inc.	

- Precept Managed Care Practice Experience for Texas Southern University Students
- Work with Director of Pharmacy Analytics to review and evaluate clinical documentation for prior authorizations , analyze pharmacy cost and utilization management and provide responses to drug information inquiries

Drug Information Specialist, Harris Health Systems	July 2007 – July 2015
--	-----------------------

- Precept Drug Information Practice Experience for Texas Southern University Students and Post-Graduate Year 1 students for Harris Health Systems and Texas Southern University Residencies
- Work with formulary management and pharmacoeconomics department to answer drug information questions, manage prior authorization program, write and present drug monographs and complete medication utilization evaluations
- Publish quarterly pharmacoeconomics and formulary management newsletter

#### *Didactic Teaching*

- NAPLEX Boot Camp Coordinator
- Course Coordinator, Drug Information and Literature Evaluation
- Course Coordinator, Pharmacy Practice (Communications)
- Instructor, Pharmacy Practice II (Diabetes, Dyslipidemia, Hypertension)
- Instructor, Pharmacotherapy of the Endocrine System (Diabetes)
- Instructor, Pharmacotherapy of the Cardiovascular System (Dyslipidemia)

### **Clinical Informatics Manager**

Jul 2005 – Jun 2007

Kaiser Permanente Regional Office, Georgia Region

- Developed drug utilization management tools for electronic medical record (EPIC) and developed training materials to teach providers and clinical pharmacy staff how to use tools effectively
- Maintenance of commercial and Medicare formulary in EPIC based on CMS requirements
- Recommended and implemented prospective and retrospective drug utilization review programs and initiatives including the initiation of quality care dosing programs
- Primary preceptor for Managed Care Pharmacy Practice Residency and instructor for Pharmacy Technician Certified Board Exam
- Editor, Mortar & Pestle (Department of Pharmaceutical Services newsletter)

### **Managed Care Pharmacy Practice Resident**

Jul 2004 – Jun 2005

Kaiser Permanente Georgia Region

- American Society of Health System Pharmacists and Association of Managed Care Pharmacists Accredited
- Experiences included Outpatient Anticoagulation clinic, Pharmacy Cardiac Risk Service, Medication Utilization, Primary Care, In-Patient, Drug Information, Population Based Care and Administration

### **CVS/Pharmacy**

2003 - Present

Floater Pharmacist

## **FUNDED GRANTS, RESEARCH, and AWARDS**

- **Susan G. Komen Breast Cancer Foundation Community Grants Program**  
Role: Project Coordinator  
Amount: \$50,000  
Agency: Susan G. Komen Breast Cancer Foundation  
Dates: April 2017 – March 2018
- **Carnegie African Scholars in Diaspora Fellowship**  
Role: Fellow  
University of Nigeria  
Agency: Carnegie Corporation of New York  
Dates: July 2017
- **Uncontrolled Asthma among Pediatric African-Americans (Medication Therapy Management)**  
Role: Principal Investigator  
Amount Funded: \$215,000  
Agency: Centers for Medicare and Medicaid Services  
Dates: October 2015 – September 2017
- **AHRQ Health Care Innovations Exchange Learning Community on Medication Therapy Management for At-risk Populations.**  
Role: Co-lead  
Agency: Department of Health and Human Services/Westat, Inc.  
Dates: August 2014 – September 2016

- **The Use of an Academic Detailing Program to Reduce Prescription Costs**  
 Role: Principal Investigator  
 Amount Funded: \$10,000  
 Funding Agency: Texas Southern University  
 Dates: March 2015 – March 2016
- **Introducing Online Education at a Historically Black College/University Grant.**  
 Role: Principal Investigator  
 Amount Funded: \$10,000  
 Funding Agency: Texas Southern University, Center for Online Education and Instructional Technology (COLEIT)  
 Period of Funding: August 2010 – July 2011
- **Vitamins and Mineral Supplements Review for Texas Medicaid Coverage**  
 Role: Principal Investigator  
 Amount Funded: \$62,062  
 Funding Agency: Health and Human Services Commission (HHSC)  
 Period of Funding: January 2009 – December 2009
- **Innovations in Competency Education: Strengthening the Pipeline**  
 Role: Co-investigator  
 Amount Funded: \$127,944  
 Funding Agency: Minority Health Research and Education  
 Period of Funding: January 2008 – December 2009
- **Folic Acid Supplementation in Sickle Cell Disease**  
 Role: Principal Investigator  
 Amount Funded: \$14,000  
 Funding Agency: Texas Southern University (Seed Grant)  
 Period of Funding: January 2008 – August 2008

#### **PUBLICATIONS (PEER REVIEWED)**

1. Ndefo UA, Moultry AM, Davis PN, Askew R. Provision of medication therapy management by pharmacists to patients with type-2 diabetes mellitus in a federally qualified health center. *Pharmacy and Therapeutics* 2017;42(10):632-637.
2. Ndefo UA, Norman R, Henry AC. Academic detailing has a positive effect on prescribing and decreasing prescription drug costs: A health plan's perspective. *Am Health Drug Benefits*. 2017;10(3):129-133.
3. Ndefo UA, Anidiobi N, Basheer E. Empagliflozin, a novel SGLT2 inhibitor for the treatment of type 2 diabetes. *Pharmacy & Therapeutics* 2015;40(6):364-368.
4. Davis PN, Ndefo UA, Harold A. Dapagliflozin: a sodium glucose cotransporter 2 inhibitor for the treatment of diabetes mellitus. *J Pharm Pract*. 2015. Jan 21. PMID: 25609661
5. Davis PN, Ndefo UA, Harold A, Payton E. Albiglutide: A once-weekly glucagon-like peptide-1 receptor agonist for the management of type 2 diabetes. *Am J Health-Syst Pharm*. 2015;72(13):1097-103.
6. Ndefo UA, Okoli OE, Erowele GI. Alogliptin: A new dipeptidyl peptidase-4 inhibitor for the management of type 2 diabetes. *Am J Health-Syst Pharm*. 2014;71(2):103-9.
7. Eaton AT, Davis PN, Ndefo UA, Ebiogwu A. Update on pharmacotherapeutic options for rheumatoid arthritis. *US Pharm*. 2013;38(10):44-48.

8. Ndefo UA, Eaton AT, Green MR. A Review of Pharmacological Treatment Options for Polycystic Ovary Syndrome. *Pharmacy & Therapeutics* 2013;38(6):336-349.
9. Brown JM, Barnes AS, Ndefo UA, Erowele GI. Pharmacist-managed weight-loss program using meal-replacement product. *Am J Health-Syst Pharm.* 2012;69(17):1456-8.
10. Ndefo UA, Auer J, Poon I, Erowele GI, Eaton A. Cardiovascular Drugs In: Mozayani A, Raymon L. Handbook of Drug Interactions. A clinical and Forensic Guide. 2<sup>nd</sup> Edition. Humana Press 2011:285-384.
11. Henry AC, Erowele GI, Ndefo UA, Milton-Brown J, Anassi E, Okpara AU. From A to Z: Medication cost management strategies in a disproportionate share hospital. *Am Health Drug Benefits.* 2011;4(3):172-180.
12. Ndefo UA, Erowele GI. Focus on methylnaltrexone: a selective mu-opioid receptor antagonist for the treatment of opioid-induced constipation. *J Pharm Technol* 2011;27:15-8.
13. Anassi E, Ndefo UA. Sipuleucel-T (provenge) injection: the first immunotherapy agent (vaccine) for hormone-refractory prostate cancer. *Pharmacy & Therapeutics* 2011;36(4):197-202.
14. Fike DS, McCall KL, Estes FG, Ndefo UA, Raehl CL, Lockman PR. Promoting minority student learning gains in a prescription practice course. *Currents in Pharmacy Teaching and Learning* 3(2011)17-22.
15. Eaton A, Ndefo UA, Ebeid A, Ramirez R, Patel K, Begnaud D. The use of psychotherapeutic medications in war veterans. *US Pharm.* Nov 2010 Continuing Education. UAN: 0430-0000-10-038-H01-P Credits:2.0 hours (0.20 ceu)
16. Ndefo UA, Moseley N. Estradiol valerate and estradiol valerate/dienogest (Natazia) tablets: the first four-phasic oral contraceptive. *Pharmacy & Therapeutics* 2010;35(11):614-7.
17. Anadu U, Estes F, Osemene N, Poon IC, et al. (Collaborators), Symposium on roles of and cooperation between academic- and practice-based pharmacy clinicians. *Am J Health-Syst Pharm.* 2010;67: 231-238.
18. Ndefo UA. Erowele GI, Ebisiah R, Green W. Clevidipine: A new intravenous option for the management of acute hypertension. *Am J Health-Syst Pharm.* 2010;67(5)351-360.
19. Erowele GI, Ndefo UA. Oral mucositis: update in prevention and management strategies. *US Pharm.* 2009;34(1)(Oncology suppl):10-14.
20. Ndefo UA, Maxwell AE, Nguyen H, Chiobi T. Management of sickle cell disease. *Pharmacy & Therapeutics* 2008;33:238-246.
21. Gray CL, Ndefo UA. Nebivolol: a new antihypertensive agent. *Am J Health Syst Pharm.* 2008;65(12):1125-33.

#### PUBLICATIONS (NON-PEER REVIEWED)

1. Moye PM, Ndefo UA, Shogbon A, Pounds T. Participation of Nigerian Pharmacists on Multidisciplinary Medical Teams. *Glob J Pharmaceu Sci.* 2018;4(4):555645.
2. Zagaar M, Ndefo UA. Medication nonadherence in the Latino population: A challenge and an opportunity for specialized services. *Pharmacy Times.* January 2017.
3. Ndefo UA. I matched. What next? Professional Pearls. *Texas Society of Health System Pharmacists Students Newsletter.* March 2013.
4. Ndefo UA. On the Table: Faculty Performance Committee. *The Faculty Speaks.* TSU

Faculty Senate Newsletter. March 2013.

5. Ndefo UA. Prescription transfer coupons. *Am J Health-Syst Pharm*. 2011 68:787.
6. Ndefo UA. Becoming Board Certified. Professional Pearls. *Texas Society of Health System Pharmacists Students Newsletter*. February 2011.

#### PLATFORM PRESENTATIONS

1. Provision of Drug Information. Preceptor Training Program. Pharmaceutical Council of Nigeria. Special PharmD Conversion. July 2018.
2. *Current Advances and Therapeutic Updates in Diabetes*. Nigerian Association of Pharmacists and Pharmaceutical Scientists in the Americas. 2017 Annual Scientific Conference
3. *Preceptorship and the Doctor of Pharmacy Program*. International Preceptor Training Workshop, Presented at University of Nigeria Teaching Hospital. July 2017.
4. *Implementation of a Medication Therapy Management Intervention in Ambulatory Care Settings: Experiences and Lessons Learned from the MyRx Pilot*. Fredrick Douglas Lecture Series. Honors College, Texas Southern University. November 2016.
5. *Using MTM to Improve Care for Children with Asthma*. Keynote Speaker, Medication Therapy Management Learning Community. November 2015.
6. *Career Options for Young Professionals*. Nigerian Association of Pharmacists and Pharmaceutical Scientists in the Americas. 2015 Annual Scientific Conference. September 2015.
7. *Outpatient Management of Diabetes & Practice Cases*. International Training Workshop on Pharmacotherapy, July 2015. Presented at the University of Nigeria Teaching Hospital in collaboration with the University of Nigeria, Department of Clinical Pharmacy.
8. *Outpatient Management of Dyslipidemia & Practice Cases*. International Training Workshop on Pharmacotherapy, July 2015. Presented at the University of Nigeria Teaching Hospital in collaboration with the University of Nigeria, Department of Clinical Pharmacy.
9. *How to Provide Cardiovascular Risk Reduction Services at your Practice Site*. International Training Workshop on Pharmacotherapy, July 2015. Presented at the University of Nigeria Teaching Hospital in collaboration with the University of Nigeria, Department of Clinical Pharmacy.
10. *How to Develop a Rotation Syllabus*. International Training Workshop on Pharmacotherapy, July 2015. Presented at the University of Nigeria Teaching Hospital in collaboration with the University of Nigeria, Department of Clinical Pharmacy.
11. *Drug Information – Internet Resources*. International Training Workshop on Pharmacotherapy, July 2015. Presented at the University of Nigeria Teaching Hospital in collaboration with the University of Nigeria Department Of Clinical Pharmacy.
12. *Critical Literature Evaluation*. International Training Workshop on Pharmacotherapy, July 2015. Presented at the University of Nigeria Teaching Hospital in collaboration with the University of Nigeria Department Of Clinical Pharmacy.
13. *Emerging Strategies in the Management of Type 2 Diabetes*. February 2015. Texas Pharmacy Association. Webinar. Available at <https://centerforexcellence.txpharmacy.org/index.cfm?pg=semwebCatalog&panel=showSWOD&seminarid=6016>.
14. *A Review of the New Cholesterol Guidelines*. Fall 2014 Texas Southern University Preceptor

- Conference, Houston TX. Continuing Education accredited by Accredited Council for Pharmacy Education.
15. *Emerging Strategies in the Management of Type 2 Diabetes*. Fall 2014 Texas Southern University Homecoming Alumni CE. Continuing Education accredited by Accredited Council for Pharmacy Education.
  16. *Emerging Strategies in the Management of Type 2 Diabetes*. - Nigerian Association of Pharmacists and Pharmaceutical Scientists in the Americas. 2013 Annual Scientific Conference, Philadelphia, PA. Continuing Education accredited by Accredited Council for Pharmacy Education.
  17. *Emergency Preparedness in Elderly Patients with Diabetes*. April, May, June 2013 “Bioterrorism: The One Step Approach, Houston TX. Continuing Education Series accredited by Accredited Council for Pharmacy Education.
  18. *Diabetes Update 2013*. International Training Workshop on Pharmacotherapy – Best Clinical Practices: Incorporating Both Classroom Case-based Didactic Lectures and Hands-on Training at Clerkship Sites. July 2013. Presented in Ibadan, Nigeria.
  19. *Hypertension Update 2013*. International Training Workshop on Pharmacotherapy – Best Clinical Practices: Incorporating Both Classroom Case-based Didactic Lectures and Hands-on Training at Clerkship Sites. July 2013. Presented in Ibadan, Nigeria.
  20. *Dyslipidemia Update 2013*. International Training Workshop on Pharmacotherapy – Best Clinical Practices: Incorporating Both Classroom Case-based Didactic Lectures and Hands-on Training at Clerkship Sites. July 2013. Presented in Ibadan, Nigeria.
  21. *Overcoming Barriers to Insulin Use in Type 2 Diabetes*. Spring 2013 Texas Southern University Preceptor Conference, Houston TX. Continuing Education accredited by Accredited Council for Pharmacy Education.
  22. *Advances in Pharmacotherapy of Contraceptives 2010*. Student National Pharmaceutical Association, Houston, TX. Continuing Education accredited by Accredited Council for Pharmacy Education.
  23. *Diabetes Update 2010*. Nigerian Association of Pharmacists and Pharmaceutical Scientists in the Americas. 2010 Annual Scientific Conference, Dallas TX. Continuing Education accredited by Accredited Council for Pharmacy Education.
  24. *Diabetes management and counseling opportunities for pharmacists*. Nigerian Association of Pharmacists and Pharmaceutical Scientists in the Americas. 2008 Annual Scientific Conference, Atlanta GA. Continuing Education accredited by Accredited Council for Pharmacy Education.

## POSTER PRESENTATIONS

1. Ndefo UA, Davis PN, Kazeem A. Pediatric African-Americans with uncontrolled asthma. Research Centers for Minority Institutions Conference. October 2017
2. Ndefo UA, Henry AC, Norman R. Academic detailing has a positive effect on appropriate antibiotic prescribing and drug costs to a health plan. Academy of Managed Care Pharmacy Annual Meeting, Spring 2016.
3. Ndefo UA, Emelogu O. Attitudes of African Immigrants in the United States towards birth control. ASHP Midyear Clinical Meeting, December 2015
4. Ndefo UA, Gopalani O. The use of herbs and supplements by different cultural groups to manage diabetes. ASHP Midyear Clinical Meeting, December 2015
5. Milton-Brown J, Ndefo UA. Restricted use of rifaximin for overt hepatic

- encephalopathy in a county health system. ASHP Midyear Clinical Meeting, December 2015
6. Milton-Brown J, Ndefo UA. Hydroxyprogesterone use in the prevention of preterm births in a county health-system. ASHP Midyear Clinical Meeting, December 2015
  7. Moyo P, Shogbon A, Ndefo UA, Advani A, Enato E, Pounds T. Development and implementation of an international pharmacotherapy training workshop in Benin City, Nigeria. American College of Clinical Pharmacy Global Conference on Clinical Pharmacy October 2015
  8. Ndefo UA, Henry AC. Impact of blockbuster generics on a county hospital budget. ASHP Midyear Clinical Meeting, December 2013
  9. Milton-Brown J, Ndefo UA, Henry AC. Implementation and evaluation of an automated prior authorization program in a county hospital system. ASHP Midyear Clinical Meeting December 2013
  10. Ndefo UA, Milton-Brown J, Woods A, Nguyen P, Pham NT. Appropriateness of zoledronic acid use. ASHP Midyear Clinical Meeting, December 2013
  11. Anassi EO, Nwachukwu P, Ndefo UA. Assessing the long-term impact of an antimicrobial restriction program on antimicrobial cost and susceptibilities. ASHP Midyear Clinical Meeting, December 2011
  12. Brown O, Okpara AU, Ndefo UA. Internalizing a patient assistance program in a county hospital system. ASHP Midyear Clinical Meeting December 2011
  13. Milton-Brown J, Ndefo UA. The appropriateness of quetiapine use in a county health-system. ASHP Midyear Clinical Meeting December 2011
  14. Milton-Brown, Barnes J, Ndefo UA, Erowele GI. Weight management using a meal replacement strategy: reports of a pharmacist managed prior authorization program. ASHP Midyear Clinical Meeting December 2011
  15. Ndefo UA, Davis PN, Iloanya E, Okonkwo U. Pharmacists recommendations for over-the-counter cough and cold medications in children. ASHP Midyear Clinical Meeting, December 2011
  16. Ndefo UA, Patel K, Erowele GI, Green W, Milton-Brown J. Pioglitazone use of evaluation in a county hospital. ASHP Midyear Clinical Meeting December 2011
  17. Ndefo UA, Jones P, Henry AC. Impact of evidence in literature on the prescribing of ezetimibe in a county hospital. ASHP Midyear Clinical Meeting, December 2011
  18. Ndefo UA, Milton-Brown J, Sultan S, Ramirez R, Okpara AU. Cost efficacy of blood glucose monitoring in a county hospital system. ASHP Midyear Clinical Meeting December 2009
  19. Ndefo UA, Milton-Brown J, Sultan S, Ramirez R, Okpara AU. Montelukast for the treatment of asthma: assessment of utilization in a county hospital system. ASHP Midyear Clinical Meeting, December 2009
  20. Green WJ, Ndefo UA, Okpara AU. Sevelamer medication utilization evaluation: effectiveness in phosphate binding in outpatient setting. ASHP Midyear Clinical Meeting, December 2009
  21. Ndefo UA, Williams KL, Moore D. Formulary guideline compliance for prescribing duloxetine in a county hospital system. ASHP Midyear Clinical Meeting, December 2009
  22. Ndefo UA, Milton-Brown J, Maxwell A. Evaluation of the utilization of tumor necrosis factor blockers in a county hospital system. ASHP Midyear Clinical Meeting. December 2009

23. Ndefo UA, Williams KL, Henry A, Holley L. Combination therapy with an angiotensin II receptor blocker and angiotensin-converting enzyme inhibitor in patients treated in a county hospital. ASHP Midyear Clinical Meeting, December 2008
24. Ndefo UA, Erowele GI, Batubo D. Retrospective analysis of esomeprazole use and adherence to established or approved prescribing guidelines in hospitalized patients. ASHP Midyear Clinical Meeting, December 2008
25. Ndefo UA, Eaton AT. Doctor of pharmacy student's evaluation of drug information practical examination. AACP Annual Meeting, July 2008

#### ACADEMIC SERVICE

Member, Faculty Hearing Committee	2017 – Present
Member, Faculty Advisory Committee	2017 - Present
Chair, Examination Committee	2017 - Present
Honors Fellow	2016 - 2018
Chair, Comprehensive Examination Committee	2013 - Present
TSU Community Pharmacy Residency Advisory Committee	2014 - Present
Faculty Senator	2013 – 2015
Member, Pharmacy Practice Search Committee	2012 – Present
Chair, Ad Hoc University Faculty Evaluation Committee	2011 – 2013
Member, Ad Hoc University Student Evaluation Committee	2011 – 2012
Member, Assessment, Evaluation and Improvement Committee	2008 – Present
Member, Admissions and Academic Standards Committee	2008 – Present

#### HONORS AND AWARDS

Preceptor of the Year Nominee, Texas Southern University	2017/2018
Texas Medical Center Magazine Feature	April 2018
Member of the Month, Nigerian Pharmacist Association	July 2017
Preceptor of the Year, Texas Southern University	2016/2017
Preceptor of the Year, Texas Southern University	2013/2014
Preceptor of the Year, Kaiser Permanente	2006/2007
Pfizer Outstanding Leader Award	2003/2004
Phi Lambda Sigma Leadership Society	2002

#### EDITORIAL REVIEW

Editorial Board, Journal of Managed Care Pharmacy	2013 – 2016
Reviewer, American Journal of Health System Pharmacy	2007 – Present
Reviewer, Journal of Managed Care Pharmacy	2007 - Present

#### MEMBERSHIPS

Academy of Managed Care Pharmacy, Member	2004 – Present
• Professional Practice Committee Member	2009 – 2012
• Faculty Advisor, TSU Student Chapter	2015 - Present
American Society of Health System Pharmacy, Member	2000 – Present
• Faculty Advisor, Student Society of Health-System Pharmacy	2009 – Present
Nigerian Association of Pharmacists and Pharmaceutical Scientists in the Americas (NAPPSA)	2008 – Present
• Advisory Board Member	2017 - Present
• Education Committee	2014 - Present

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## Edward C. Bell, PhD

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**ADDRESS:** 1766 Aden Mist Drive, Houston, TX 77003  
Work phone: (713) 313-7581  
Evening Phone: (832) 748-1381  
E-mail: [bellec@tsu.edu](mailto:bellec@tsu.edu)

**EDUCATION:** 2005 Auburn University, Auburn, AL 36832  
PhD: Pharmaceutics with an emphasis in  
Pharmacokinetics

1998 Tougaloo College, Tougaloo, MS 39174  
Bachelor of Science: Chemistry

### PROFESSIONAL EXPERIENCES:

2013 – Present

Associate Professor of Pharmaceutical Sciences  
College of Pharmacy and Health Sciences  
Texas Southern University  
Houston, TX 77003

Duties and Responsibilities:

- Responsible for the instruction of pharmaceutics and related disciplines. Responsible for the conduct of pharmaceutical and academic research, in addition to service on various College and University committees. Also responsible for the advisement of Pharm D. program and graduate program students.

2006 – 2013

Assistant Professor of Pharmaceutical Sciences  
College of Pharmacy and Health Sciences  
Texas Southern University  
Houston, TX 77003

2009 – 2011

Interim Assistant Dean of Student Services  
Thomas F. Freeman Honors College  
Texas Southern University

Duties and Responsibilities:

- Was responsible for the oversight and maintenance of student activities within the TSU Honors College, including support services in the promotion of timely student matriculation. Also coordinated student exchange and internship activities within the college.

1999 – 2005

Graduate Teaching Assistant  
Auburn University  
Auburn, AL 36832  
Supervisor: William Ravis, PhD  
Supervisor (Phone): (334) 844-4037

Duties and Responsibilities:

- Taught pharmaceutics labs (compounding and dispensing) to undergraduate/Pharm. D. students at Auburn University.

1999 – 2005

Graduate Research Assistant  
Auburn University  
Auburn, AL 36832  
Supervisor: William Ravis, PhD

Supervisor (Phone): (334) 844-4037

Duties and Responsibilities:

- Assessment of methylprednisolone synovial fluid concentration following administration in horse joints. College of Veterinary Medicine, Auburn University, Nov 2003 - Feb 2004.
- Clinical Research Assistant: Effect of congestive heart failure on the pharmacokinetics of eplerenone, Phase II clinical trial, Pharmacia, Jun 2002 - Jul 2002.
- Clinical Research Assistant: Pharmacokinetics of single and multiple oral dose eplerenone in healthy and renally impaired patients. Phase I clinical trial, Searle/Pharmacia, May 2001 - Sep 2001.
  - Gained experience writing clinical protocols and SOPs.

1997 (summer)

Research Chemist (Intern)

Eli Lilly Pharmaceutical Company, Indianapolis, IN

Supervisor: Benjamin Anderson, PhD

Supervisor (Phone): (317) 277-1495

Duties and Responsibilities:

- Worked as an intern in the organic chemistry division, with emphasis on synthesis of drug intermediates.

#### **AWARDS AND HONORS**

- Teacher of the Year, 2008-2009, College of Pharmacy and Health Sciences, Texas Southern University, Houston, TX

#### **COLLEGE AND UNIVERSITY COMMITTEES:**

##### University

- Member, Texas Southern University Faculty Senate Committee on Inquiry, 2018-Present
- Member, Texas Southern University President's Council on Equity, 2018-Present
- Member, Texas Southern University Honors College Dean's Search Committee, 2017
- Chairman, Texas Southern University Faculty Awards Committee, 2016-2017
- Member, Texas Southern University Rank, Tenure, Promotion and Salary Committee, 2016-Present
- Member, Texas Southern University Provost's Search Committee, 2014
- Member, Texas Southern University Honors College Dean's Search Committee, 2014
- Member, Texas Southern University Honors College Planning Committee, 2008-2009

##### College

- Chairman, Texas Southern University College of Pharmacy and Health Sciences Dean Search Committee, 2018-2019
- Member, TSU College of Pharmacy and Health Sciences Curriculum Committee, 2006-Present
- Member, TSU College of Pharmacy and Health Sciences Admissions and Academic Progression Committee, 2006-Present
- Member, TSU College of Pharmacy and Health Sciences Admissions and Academic Progression Dismissal Appeals Sub-committee, 2007-Present
- Member, TSU College of Pharmacy and Health Sciences Exam Committee, 2006-Present
- Member, TSU College of Pharmacy and Health Sciences Graduate Program Steering Committee, 2006-Present
- College Representative, TSU Faculty Senate, 2015-Present
- Member, TSU College of Pharmacy and Health Sciences Pharmaceutical Sciences Faculty Search Committee, 2015
- Co-Chairman, TSU College of Pharmacy and Health Sciences Exam Committee, 2006-2014

#### **ACADEMIC COURSE INSTRUCTIONAL EXPERIENCES:**

Phar 111	Pharmacy Orientation
Phar 211	Pharmacy Applications
Phar 433	Pharmaceutics I-- Pharmaceutical Calculations*
Phar 434	Pharmaceutics II – Dosage Forms*

Phar 430	Biostatistics in Pharmacy
Phar 534	Pharmaceutics IV-- Dosage Forms
Phar 539	Biopharmaceutics and Pharmacokinetics*
Phar 542	Pharmacotherapy I—Nervous System and Psychiatric Disorders*
Phar 636	Pharmaceutics VI-- Applied Pharmacokinetics
Phar 641	Pharmacotherapy IV—Respiratory Systems Disorders
PHS 807	Experimental Design, Instrumentation, and Clinical Measurement
PHS 906	Ph.D. Laboratory Rotation*
PHS 814	Laboratory Rotation*
Pharm 413	Pharmaceutics I Lab*
Pharm 414	Pharmaceutics II Lab*
Pharm 519	Pharmaceutics III Lab*
Pharm 616	Pharmaceutics VI Lab*

\* Denotes Coordinator Experience

## RESEARCH ACTIVITIES:

### Publications

Bell, E.C., Fike, D.S., Liang, D. et al. Assessment of Computer-Mediated Module Intervention in a Pharmacy Calculations Course. *Educ Inf Technol* (2016). doi: 10.1007/s10639-016-9531-8

Bell, E.C. John M. Hughes R.J. Pham T. Ultra performance liquid chromatographic determination of tocopherols and retinol in human plasma. *Journal of Chromatographic Science*. 2013. Doi: 10.1093/chromsci/bmt161

John MK. Xie H. Bell E.C. Liang D. Development and pharmacokinetic evaluation of a curcumin co-solvent formulation. *Anticancer Research*. 33: 4285-4292, 2013.

Nagilla, R. Deshmukh, D. Copedge, K. Miller, S. Martin, B. Bell, E. Duran, S. Ravis, W. Enantiomeric Disposition of Ketorolac in Goats Following Administration of a Single Intravenous and Oral Dose. *Journal of Veterinary Pharmacology and Therapeutics*. 32(1): 49-55, 2008. doi: 10.1111/j.1365-2885.2008.00999.x

Liang D, Ma J, Wei B, Poon IO, Bell EC, Bates TR. Determination of inositol hexanicotinate in rat plasma by high performance liquid chromatography with UV detection. *J Chromatogr B Analyt Technol Biomed Life Sci*. 863(1):172-6, 2008.

Bell EC. Ravis WR. Chan HM. Lin YJ. Lack of pharmacokinetic interaction between St. John's wort and prednisone. *Annals of Pharmacotherapy*. 41(11):1819-24, 2007.

Bell EC. Ravis WR. Lloyd KB. Stokes TJ. Effects of St. John's wort supplementation on ibuprofen pharmacokinetics. *Annals of Pharmacotherapy*. 41(2):229-34, 2007.

Serena A. Schumacher J. Schramme M. DeGraves F. Bell E. and Ravis WR. Concentration of methylprednisolone in the distal intertarsal joint after administration of methylprednisolone acetate in the tarsometatarsal joint. *Equine Veterinary Journal*, 37(2): 172-174, 2005.

Anderson B. Bell E. Ginah F. Harn N. Pagh L. and Wepsiec J. Cooperative catalyst effects in palladium-mediated cyanation reactions of aryl halides and triflates. *J. Org. Chem*. 63 (23): 8224-8228, Oct 1998.

## **Research Presentations**

Vera, L. Bell E. Liang, D. Formulating an Optimal Oral Dissolving Film by Varying HPMC and Maltodextrin Concentrations. Texas Southern University Undergraduate Research Program Poster Session, July 31, 2014.

Wei, B., Wu, L., Bell, E., Bates, T. R., Liang, D. Development and Validation of a Liquid Chromatography/Tandem Mass Spectrometry Method for Simultaneous Determination of Modafinil and Zaleplon in Rat Plasma. Annual Meeting of American Association of Pharmaceutical Scientists (AAPS), Los Angeles, CA, November 8- November 12, 2009.

Bell, E., Ravis, W. R., Braxton-Lloyd, K., and Stokes, T. Effects of St. John's wort supplementation on ibuprofen pharmacokinetics. Annual Meeting of American Association of Pharmaceutical Scientists (AAPS), San Antonio, TX, October 29- November 2, 2006.

Bell, E., Ravis, W. R., Braxton-Lloyd, K., Owen, J., and Stokes, T. Investigation of St. John's wort effects on the pharmacokinetics of prednisone and metabolic prednisolone in humans. 19th Annual Meeting of American Association of Pharmaceutical Scientists (AAPS), Baltimore, MD, November 7-11, 2004.

Nagilla, R., Bell, E., Ravis, W. R., and Duran, S. H. Enantioselective pharmacokinetics of ketorolac in goats following a single intravenous and oral dose. 18th Annual Meeting of American Association of Pharmaceutical Scientists (AAPS), Salt Lake City, Utah, October 26-30, 2003.

Nagilla, R., Bell, E., Ravis, W. R., Duran, S. H. and Copedge, K. Enantioselective pharmacokinetics of ketorolac in goats following a single intravenous and oral dose. 12th Annual Graduate Research Forum (GSO), Auburn University, Auburn, March 20, 2003.

## **RESEARCH SUPPORT:**

01/09 - 07/09

### *Texas Health and Human Services Commission*

#### Coverage of Medically Necessary Vitamins and Minerals for Pediatric Medicaid Clients

This study is to develop a list of pediatric conditions and health problems that require vitamin or mineral supplements as the sole source, primary or adjunct treatment. The study also provides the Texas HHSC with a tool to make evidence-based decisions on prior authorization criteria for vitamins and mineral supplementation for pediatric Medicaid clients.

Role: Co-Investigator

08AP080001SHNa

Fike (PI)

01/25/08 - 08/31/09

#### Texas Higher Education Coordinating Board

#### Innovations in Competency Education: Strengthening the Pipeline

This study demonstrated the impact of using a competency-based instruction and assessment method in courses at the Texas Tech School of Pharmacy, Texas Southern University College of Pharmacy, and Amarillo College.

Role: Co-PI

FA9550-08-10026

Hayes (PI)

02/01/08 – 11/30/08

#### Air Force Office of Scientific Research

#### Center for Human Performance and Material Sciences for National Security

This study assessed the impact of pharmaceutical interventions upon pilot performance.

Role: Co-Investigator



CURRICULUM VITAE  
**WILLIE CAPERS II, PHARM.D, MBA**  
(revised December 2018)

Texas Southern University College of Pharmacy and Health Sciences  
Department of Pharmacy Administration and Administrative Health Sciences  
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Houston, TX 77004  
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Fax: 713-313-1209  
willie.capers@tsu.edu

## **EDUCATION**

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### **HIGHER EDUCATION**

2010	Arkansas State University College of Business Jonesboro, Arkansas	MBA
2001	Texas Southern University College of Pharmacy and Health Sciences Houston, Texas	PharmD

### **POSTGRADUATE TRAINING**

2003	Aurora Healthcare Milwaukee, Wisconsin	PGY2 Pharmacy Administration
2002	Aurora Healthcare Milwaukee, Wisconsin	PGY1 Pharmacy Practice

### **LICENSURE AND CERTIFICATIONS**

2013 to Present	Preceptor, Texas State Board of Pharmacy
2001 to Present	Registered Pharmacist, Texas State Board of Pharmacy, 40320
2016 to 2017	Pharmacist-in-Charge, Texas State Board of Pharmacy
2007 to 2013	Registered Pharmacist, Arkansas State Board of Pharmacy, PD10709
2007 to 2013	Preceptor, Arkansas State Board of Pharmacy
2007 to 2012	Pharmacist-in-Charge, Arkansas State Board of Pharmacy
2005 to 2007	Pharmacist-in-Charge, Texas State Board of Pharmacy
2003 to 2007	Preceptor, Texas State Board of Pharmacy
2001 to 2004	Registered Pharmacist, Wisconsin State Board of Pharmacy, 13553-40

**PROFESSIONAL EXPERIENCE**

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**EMPLOYMENT HISTORY**Texas Southern University College of Pharmacy and Health Sciences

08/2014 to Present Vice-Chair, Clinical and Administrative Services

05/2013 to 08/2014 Director, Clinical Affairs and Experiential Education

Walmart, Inc.

11/2014 to Present Pharmacist (PRN)

Conroe Regional Medical Center

09/2014 to 09/2015 Clinical Pharmacist (PRN)

Excel Healthcare Group

01/2013 to 05/2013 Clinical Informatics Consultant

St Bernards Medical Center

05/2010 to 12/2012 Director of Pharmacy and Respiratory Care

10/2007 to 05/2010 Director of Pharmacy

The Methodist Hospital (now Houston Methodist Hospital)

02/2004 to 10/2007 Pharmacy Manager

09/2003 to 02/2004 Clinical Specialist II - Drug Information

**ACADEMIC APPOINTMENTS**

Assistant Professor of Pharmacy and Healthcare Administration, Texas Southern University, College of Pharmacy and Health Sciences, Houston, Texas, 2013 to present

Adjunct Assistant Professor, University of Arkansas for Medical Sciences, College of Pharmacy, Little Rock, Arkansas, 2008 to 2012

Adjunct Assistant Professor, Harding University, College of Pharmacy, Searcy, Arkansas, 2008 to 2012

Adjunct Clinical Professor, University of Texas, College of Pharmacy, Austin, Texas, 2004 to 2007

**CONSULTANTSHIPS**

Conroe Regional Medical Center, Conroe, Texas, Pharmacy Management, 09/2015 to 03/2017

Oklahoma State University Medical Center, Tulsa, Oklahoma, Clinical Informatics Consultant, 02/2013 to 03/2013

Parallon Technology Solutions, Franklin, Tennessee, Clinical Informatics Consultant, 02/2013 to 06/2013

## **SCHOLARSHIP**

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### **REFEREED POSTER PRESENTATIONS**

#### ***National***

Mathur S, Taylor A, Capers W, Moultry AM, Milton S. Behavioral model for the study of access to interprofessional education. Interprofessional Education Collaborative Spring 2016 Institute, Herndon, VA, 05/2016

Crader MF and Capers W. Effect of education on hospital pharmacists' antibiotic knowledge. American Society of Health-System Pharmacists Midyear Clinical Meeting, New Orleans, LA, 12/2011

Crader MF and Capers W. The Impact of Cost Containment and Workforce Restructuring in a Community Hospital. American Society of Health-System Pharmacists Midyear Clinical Meeting, Anaheim, CA, 12/2010

Metzen DL and Capers W. Impact of Computerized Physician Order Entry on Pharmacy Turnaround Time. American Society of Health-System Pharmacists Midyear Clinical Meeting, Las Vegas, NV, 12/2007. Featured article in Pharmacy Practice News. 02/2008

Capers W. Accuracy of Restocking Automated Unit-Based Cabinets at a Multi-hospital Integrated Health System. American Society of Health- System Pharmacists Midyear Clinical Meeting, Atlanta, GA, 12/2002

Capers W. Formulary Management: Assessing compliance in a multi-hospital integrated health system. American Society of Health-System Pharmacists Midyear Clinical Meeting. New Orleans, LA, 12/2001

#### ***Regional***

Crader MF, Capers W, Garris C, Jordan W. Impact of a decentralized integrated pharmacist staffing model on pharmacist initiated interventions. Arkansas Association of Health-System Pharmacists Fall Seminar Conference, Little Rock, AR, 10/2013

Crader MF and Capers W. Effect of education on hospital pharmacists' antibiotic knowledge. Arkansas Association of Health-System Pharmacists Fall Seminar Conference, Little Rock, AR, 10/2011

Crader MF and Capers W. The Impact of Cost Containment and Workforce Restructuring in a Community Hospital. Arkansas Association of Health-System Pharmacists Fall Seminar Conference, Little Rock, AR, 10/2010.

Capers W. Accuracy of Restocking Automated Unit-Based Cabinets at a Multi-hospital Integrated Health System. Great Lakes Pharmacy Residency Conference, West Lafayette, IN, 04/2003

Capers W. Formulary Management: Assessing compliance in a multi-hospital integrated health system. Great Lakes Pharmacy Residency Conference. Indianapolis, IN, 04/2002

**REFEREED PLATFORM PRESENTATIONS*****Regional***

Capers W. Blue Pill or Red Pill: Rediscovering the Path to Pharmacy Practice. Presented a 1 hour ACPE-accredited continuing education at the Arkansas Association of Health-System Pharmacists Fall Seminar Conference, Little Rock, AR, 10/2015.

Capers W. Building the Business Case for a Pharmacy Residency Program. Presented in a three-presenter panel for a 1.5 hour ACPE-accredited continuing education at the Arkansas Association of Health-System Pharmacists Fall Seminar Conference, Hot Springs, AR, 10/2012

Capers W. The 340B Drug Discount Program and Contract Pharmacy Networks. Presented a 1.5 hour ACPE-accredited continuing education at the Arkansas Pharmacists Association Annual Meeting, Rogers, AR, 06/2012

Capers W. Expanding Clinical Pharmacy in Health Systems. Presented a one-hour ACPE accredited continuing education at the Arkansas Association of Health-System Pharmacists Fall Seminar Conference, Little Rock, AR, 10/2010

Capers W. Principles of Safe Medication Use in the Elderly Patient. Invited lecture to Pharmacy Buying Group of America's Fall 2002 Educational Conference. Waukesha, WI, 11/2002

Capers W. The Role of Postmenopausal Hormone Replacement Therapy. Invited lecture to Pharmacy Buying Group of America's Spring 2001 Educational Conference, Wisconsin Dells, WI, 10/2002

***Local***

Capers W. Preparing Preceptors to Deliver 21<sup>st</sup> Century Pharmacy Education. Presented a 1 hour ACPE-accredited continuing education at Memorial Hermann System Preceptor Development Conference, Houston, TX, 07/2016.

Estes FG, Moultry AM, Capers W. Integrating Interprofessional Education and Simulation into Experiential Education. Presented a 2 hour ACPE-accredited continuing education at the Texas Southern University Preceptor Conference, Houston, TX, 04/2016.

Capers W. Hardwiring Safety into the Medication Management Process. Presented a one hour Arkansas State Board of Pharmacy approved, CME-accredited, and CPE-accredited continuing education for Grand Rounds at St Bernards Medical Center, Jonesboro, AR, 2010

Capers W. Principles of Safe Medication Use in the Elderly Patient, Presented a one-hour ACPE-accredited continuing education lecture at St. Luke's Medical Center, Aurora Sinai Medical Center, and West Allis Memorial Hospital. Milwaukee, WI, 10/2002

Capers W. The Role of Postmenopausal Hormone Replacement Therapy. Presented a one-hour ACPE-accredited continuing education lecture at St. Luke's Medical Center, Aurora Sinai Medical Center, West Allis Memorial Hospital, and Aurora Conference Center, Milwaukee, WI, 11/2001

### **INVITED SPEECHES**

Keep on Moving. Keynote speaker for the University Honors Convocation at Texas Southern University, Houston, TX, 3/2017

The Road Less Traveled. Keynote speaker for the White Coat Induction Ceremony at Texas Southern University, Houston, TX, 6/2014

The Choice is Yours. Keynote speaker for the Barbara Jordan Lecture at Texas Southern University, Houston, TX, 2/2014

The Future is Now. Presidential Address at the Arkansas Association of Health System Pharmacy Fall Seminar, Hot Springs, AR, 10/2012

Our Defining Moment. Inaugural Presidential Address at the Arkansas Association of Health System Pharmacy Fall Seminar, Little Rock, AR, 10/2011

Embracing a Lifelong Commitment to Personal and Professional Development. Keynote speaker for the Rho Chi Honor Society Induction Banquet at Texas Southern University, Houston, TX, 12/2004

The Art and Science of Professionalism in Health Care. Keynote speaker for the White Coat Induction Ceremony at Texas Southern University, Houston, TX, 6/2004

### **GRANTS, FELLOWSHIPS, AND RECOGNITION**

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#### **EXTERNAL FUNDING**

Houston Livestock Show and Rodeo Grant. "Interdisciplinary Health Professions Simulation Center (RG-1806-00563)." Funded.

Aisha M. Moultry (PI); October 2017 – September 2018, \$150,000; October 2018 – September 2019, \$100,000

Role: Co-Principal Investigator

#### **INTERNAL FUNDING**

Texas Southern University Seed Grant. "Team-Ready: The Interprofessional Simulation-Based Education Project." Funded.

Willie Capers (PI); January 2017 to December 2018, \$6,600

Role: Principal Investigator

US Department of Education Title III Part B Grant/Texas Southern University. "Summer Scholars Program" Funded.

Ayodotun Sodipe (PI): June 2017 to August 2017, \$3,500, June 2018 to August 2018, \$13,600

Role: Collaborator

**OTHER FUNDING**

Michael E. DeBaakey Veterans Affairs Medical Center. "Department of Pharmacy Emergency Sterile Preparation Area." Funded.

Cheryl Douglass (PI); February 2018 to March 2018, \$20,000

Role: Collaborator

TSU College of Pharmacy and Health Sciences Department of Continuing Education  
"Medication Therapy Management Certificate Program (UAN 0065-0000-09-002-L04-P)"  
Funded.

Reginal Harris (PI); October 2013 to October 2016, \$30,500.

Role: Collaborator

**AWARDS AND HONORS**

Leadership Houston Class of XXXVII, Greater Houston Partnership, 2018 to present  
Honors Faculty Fellow, Texas Southern University Thomas F. Freeman Honors College, 2015  
to present

Barbara Jordan Lecture, Texas Southern University, 2014

President's Award, Astellas Pharma US, Inc., 2012

Outstanding and Dedicated Service, Arkansas Pharmacists Association, 2012

Leadership Jonesboro Class of 2011, Jonesboro Regional Chamber of Commerce, 2011

Preceptor of the Year for Institutional Rotations, Texas Southern University College of  
Pharmacy and Health Sciences, 2007

Frederick Douglass Honors Scholar, Texas Southern University, 1993 to 1997

**TEACHING**

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**FORMAL TEACHING****Courses Taught**

Texas Southern University College of Pharmacy and Health Sciences

Coordinator, PADM 615, Professional Development Seminar II, 2018 to present

Coordinator, PHAR 411, Pharmacy Communications Lab, 2018 to present

Lecturer, PHAR 539/519, Pharmacokinetics, 2017 to present

Lecturer, PADM 630, Pharmacy Practice Management, 2013 to present

Lecturer, PHAR 543, Pharmacotherapy II Cardiovascular Disorders, 2015 to present

Lecturer, PHAR 542, Pharmacotherapy I Nervous System Disorders, 2015 to present

Lecturer, PHAR 532, Drug Information and Literature Evaluation, 2015 to present

Lecturer, PHAR 411, Pharmacy Communications, 2015 to 2018

Coordinator, HSHA 621, Strategic Planning and Management, 2016 to 2018

Coordinator, PHAR 618/619, Institutional Pharmacy Practice, 2013 to 2018

Coordinator, PHAR 516/517, Community Pharmacy Practice, 2013 to 2018

Coordinator, HSHA 433, Healthcare Marketing and Strategic Planning, 2017

Coordinator, PHAR 416/417, Introduction to Service Learning, 2013 to 2016

**Invited Lectures**Houston Community College Coleman College for Health Sciences

Lecturer, Career Opportunities in Pharmacy. Invited lecture for dual-credit Health Care Professionals Course to 10<sup>th</sup> grade students enrolled in Jane Long Academy, 04/2014

Texas Southern University College of Pharmacy and Health Sciences

Lecturer, Interprofessional Education and Multidisciplinary Patient Care. Invited lecture for Pharmacy Orientation Course to pre-pharmacy students, 03/2014

Lecturer, Hospital Pharmacy Practice. Invited lectures for Introduction to Pharmacy Course to Pre-Pharmacy students, 2004 to 2007

Lecturer, Controlled Substances: Inventory Control and Personnel Management. Invited lectures for Prescription Practice Course to 3rd year Doctor of Pharmacy students, 2003 to 2007

Lecturer, Break-Even Point Analyses in Pharmacy Practice. Invited lectures for Pharmacy Management Course to 3rd year Doctor of Pharmacy students, 2003 to 2004

Harding University College of Pharmacy

Lecturer, Pharmacy Operations, Inventory Management, and Medication Safety. Invited lecture for Pharmacy Practice Management Course to 3rd year Doctor of Pharmacy students, 8/2012

Lecturer, How Hospitals Work: Primer to Health-Systems and Health-System Pharmacy. Invited lecture for Pharmacy Practice Management Course to 3rd year Doctor of Pharmacy students, 9/2009

University of Arkansas for Medical Sciences College of Pharmacy

Lecturer, Leadership, Entrepreneurship and Intrapreneurship. Invited lecture for Pharmacy Practice Management Course to 3rd year Doctor of Pharmacy students, 11/2011

**Postgraduate Training Programs**St Bernards Medical Center

Founding Residency Program Director, 2011 to 2012  
Preceptor, Pharmacy Administration, 2011 to 2012 (3 residents)  
Preceptor, Critical Care Pharmacy, 2011 (2 residents)  
Preceptor, Healthcare Journalism, 2011 (1 resident)

The Methodist Hospital (now Houston Methodist Hospital)

Preceptor, Pharmacy Administration, 2004 to 2007 (10 residents)  
Preceptor, Drug Information, 2003 to 2004 (2 residents)

**Graduate Training Programs**Harding University College of Pharmacy

Preceptor, Pharmacy Practice Management, 2011 to 2012 (3 interns)  
Preceptor, Institutional Pharmacy Practice, 2011 to 2012 (10 interns)

Preceptor, Introductory Pharmacy Practice, 2009 to 2011 (21 interns)

University of Arkansas for Medical Sciences College of Pharmacy

Preceptor, Pharmacy Informatics, 2008 to 2010 (3 interns)

Preceptor, Institutional Pharmacy Practice, 2008 to 2010 (10 interns)

Texas Southern University College of Pharmacy and Health Sciences

Preceptor, Academic Pharmacy, 2015 to present (45 interns)

Preceptor, Healthcare Administration, 2016 to 2018 (2 interns)

Preceptor, Pharmacy Administration, 2015 to 2017 (10 interns)

Preceptor, Advanced Institutional Pharmacy, 2015 to 2017 (32 interns)

Preceptor, Introductory Pharmacy Practice, 2015 to 2017 (28 interns)

Preceptor, Pharmacy Practice Management, 2003 to 2007 (25 interns)

Preceptor, Institutional Pharmacy Practice, 2003 to 2007 (42 interns)

University of Houston College of Pharmacy

Preceptor, Pharmacy Practice Management, 2003 to 2007 (21 interns)

Preceptor, Institutional Pharmacy Practice, 2003 to 2007 (42 interns)

University of Texas College of Pharmacy

Preceptor, Pharmacy Practice Management, 2003 to 2007 (4 interns)

Preceptor, Institutional Pharmacy Practice, 2003 to 2007 (42 interns)

The Ohio State University College of Pharmacy

Preceptor, Pharmacy Practice Management, 2005 to 2007 (2 interns)

Preceptor, Institutional Pharmacy Practice, 2005 to 2007 (8 interns)

The University of Missouri-Kansas City College of Pharmacy

Preceptor, Institutional Pharmacy Practice, 2007 (1 intern)

Ohio Northern University College of Pharmacy

Preceptor, Institutional Pharmacy Practice, 2007 (1 intern)

Creighton University College of Pharmacy

Preceptor, Pharmacy Practice Management, 2004 (1 intern)

Preceptor, Institutional Pharmacy Practice, 2004 (1 intern)

## **SUPERVISORY TEACHING**

Thesis Advisor, Texas Southern University, 2018 to present (4 students)

Student Research Mentor, Texas Southern University, 2014 to present (24 interns)

Member, Residency Advisory Council, Texas Southern University, 2013 to present

Chair, Residency Advisory Council, St Bernards Medical Center, 2011 to 2012

Resident Research Mentor, St Bernards Medical Center, 2012 (1 resident)

Member, Residency Advisory Committee, The Methodist Hospital, 2003 to 2007

## **SERVICE**

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### **UNIVERSITY SERVICE**

#### Texas Southern University College of Pharmacy and Health Sciences

Member, Executive Committee, 2014 to present  
Member, Admissions and Academic Standards Committee, 2014 to present  
Member, Assessment, Evaluation and Improvement Committee, 2014 to present  
Member, Examination Subcommittee, 2014 to present  
Member, Continuing Professional Education Committee, 2014 to present  
Member, Curriculum Committee, 2013 to present  
Member, Interprofessional Education Subcommittee, 2013 to present  
Faculty Advisor, Student Advising Program, 2013 to present  
Faculty Advisor, American Pharmacists Association-Academy of Student Pharmacists, 2013 to present  
Chair (interim), Assessment, Evaluation and Improvement Committee, 2018  
Chair, Bylaws Committee, 2016 to 2017  
Member, Bylaws Committee, 2014 to 2017  
Member, Pharmaceutical Sciences Faculty Search Committee, 2003 to 2004

#### Harding University College of Pharmacy

Board member, Board of Advisors, College of Pharmacy, 2007 to 2012

### **PROFESSIONAL ASSOCIATION SERVICE**

Chair, Commission on Affiliate Relations, American Society of Health-System Pharmacists, 2015 to 2016  
Vice-Chair, Commission on Affiliate Relations, American Society of Health-System Pharmacists, 2014 to 2015  
Member, Commission on Affiliate Relations, American Society of Health-System Pharmacists, 2013 to 2014  
Vice-Chair, Membership Development Council, Texas Society of Health-System Pharmacists, 2014 to 2015  
Member, Public Affairs and Advocacy Council, Texas Society of Health-System Pharmacists, 2014 to 2015  
Immediate Past President, President, President-elect, Arkansas Association of Health-System Pharmacists, 2011 to 2014  
Board Member At-Large, Arkansas Association of Health-System Pharmacists, 2010 to 2011  
Board Member, Arkansas Pharmacist Association, 2011 to 2012  
Section of Pharmacy Informatics and Technology Advisory Group, American Society of Health-System Pharmacist, 2010 to 2011  
Advisory Committee for Hospital Pharmacies, Arkansas State Board of Pharmacy, 2008 to 2012

### **PHARMACY PRACTICE SERVICE**

#### Conroe Regional Medication Center

Member, Pharmacy & Therapeutics Committee, 2015 to 2017  
Member, Medication Safety Committee, 2015 to 2017

St Bernards Medical Center

Member, Neonatology Council, 2012  
Member, VHA AROK Pharmacy Steering Committee, 2011 to 2012  
Member, Physician Advisory Committee, 2009 to 2012  
Member, Safety Committee, 2009 to 2012  
Member, Occurrence Committee, 2008 to 2011  
Chair, Medication Management Committee, 2008 to 2012  
Member, Quality Assurance and Improvement Committee, 2007 to 2012  
Member, Pharmacy & Therapeutics Committee, 2007 to 2012  
Member, Revenue Cycle Management Committee, 2007 to 2011  
Member, IT System Selection Committee, 2007 to 2009  
Member, Diabetes Management Steering Council, 2007 to 2008

The Methodist Hospital (now Houston Methodist Hospital)

Member, Anticoagulant Root Cause Analysis Team, 2005 to 2007  
Member, Medication Outcomes Management Subcommittee, 2004 to 2007  
Member, Nursing-Pharmacy Council, 2004 to 2007  
Co-Chair, Medication Usage and Formulary Evaluation Subcommittee, 2003 to 2004

**COMMUNITY SERVICE**

President of the Board of Directors, Houston Youth Program for Enrichment-Freedom Schools, 2015 to present  
Board Member, Houston Youth Program for Enrichment-Freedom Schools, 2014 to 2016  
Volunteer, Cans 4 Kidz, Food Bank of Northeast Arkansas, Jonesboro, AR, 2011  
Volunteer, Susan G. Komen Race for the Cure, Jonesboro, AR, 2011  
Volunteer, Development of Business Plan, Kona Cloud Coffee, Jonesboro, AR, 2010  
Volunteer, Development of Marketing Plan, Hispanic Community Services, Inc., Jonesboro, AR, 2009  
Volunteer, Recycling Initiative, Valley View High School, Jonesboro, AR, 2009  
Volunteer, Live United Campaign, United Way, Jonesboro, AR, 2008 to 2009  
Board Member, Houston Youth Program for Enrichment-Freedom Schools, 2004 to 2007  
Volunteer, Houston Independent School District Texas Scholars Program, 2004 to 2007  
Career Day Speaker, Wauwatosa East High School, Milwaukee, WI, 2003  
Career Day Speaker, Greenfield Middle School, Milwaukee, WI, 2002  
Volunteer, Sickle Cell Anemia Foundation, Houston, TX, 1996 to 1998  
Volunteer, Keep 5 Alive Project, Houston, TX, 1996

# CREAQUE V. CHARLES, PHARMD, BCGP

3100 Cleburne Street | Houston, TX 77004

[creaque.charles@tsu.edu](mailto:creaque.charles@tsu.edu)

## SUMMARY

- Residency trained, certified clinical pharmacist with didactic and experiential teaching experience.
- Published and experienced in coordinating clinical and educational initiatives.
- Recognized patient safety advocate and clinical mentor.
- Developed, Implemented, and monitored the “Beers Criteria” initiative at BSLMC.

## EDUCATION/RESIDENCY

**Pharmacy Practice Residency** (2001) – Saint Claire Medical Center, Morehead, KY

**Doctor of Pharmacy (PharmD)** (2000) – Texas Southern University, Houston, TX

**Bachelor of Science (BS) in Biology** (1996) – Dillard University, New Orleans, LA

## LICENSURE & CERTIFICATIONS

**CPR for Healthcare Professionals/BLS** (renewed 2018)

**ACPE IV Certification** (2007)

**Board Certified Geriatric Pharmacist (BCGP)** (2004) American Society of Consultant Pharmacists

**Texas Licensed Preceptor** (2002)

**Registered Pharmacist #39580** - Texas State Board of Pharmacy (2000)

## PROFESSIONAL EXPERIENCES

TEXAS SOUTHERN UNIVERSITY COLLEGE OF PHARMACY AND HEALTH SCIENCES (TSUCOPHS), HOUSTON, TX (2017-PRESENT)

ASSISTANT PROFESSOR

Teach graduate level courses. Advise graduate students. Precept and mentor IPPE and APPE students. Coordinate pharmacy courses. Serve on the following departmental and college committees: Curriculum, Interprofessional Education Subcommittee, Professionalism and Relationships Committee, and Student Handbook Committee.

- *Delegate* (2019 TSUCOPHS) for American Association of Colleges of Pharmacy
- *Faculty Advisor* for Lambda Kappa Sigma Pharmacy Fraternity

CHI BAYLOR ST LUKE'S MEDICAL CENTER (BSLMC), Houston, TX (2007–Present)

### CLINICAL PHARMACIST I

Clinically manage warfarin and vancomycin pharmacy-to-dose consults. Review/process chemotherapy regimens. Conduct daily drug profile review. Provide order entry. Renally adjust medications per pharmacy protocol. Perform daily IV/PO interchange per protocol. Monitor narrow therapeutic medications (i.e. digoxin, TPN, anticoagulants). Actively participates in daily interdisciplinary discharge rounds. Respond to CODE BLUE emergencies. Perform monthly CII override audits. Provide drug information to physician, nursing, healthcare providers, and patients. Routinely provide education on geriatric pharmacology. Regularly update nursing staff about pharmacy formulary changes, drug shortages, and new/revised pharmacy protocols. Precept and mentor IPPE and APPE students, PGY1

and PGY2 residents, and newly hired pharmacists. **Significant Clinical Initiative – Implemented the Beers Criteria initiative.**

- *Recognized* by Pharmacy Department’s PGY1 and PGY2 residents for outstanding mentorship.
- *Lead* Clinical Pharmacist Member, BSLMC Best Practices for the Care of the Elderly Committee.
- *Appointed* to Education, CPI Shared Governance and Clinical APPE Rotation Committees.
- *Designated* official trainer for department’s 6-week pharmacy new hire/resident training.
- *Serves* on Pharmacist Week Appreciation and Employee Engagement Committees to enhance department morale and operational process improvements.

## PROFESSIONAL EXPERIENCES – continued

UNIVERSITY OF TEXAS MEDICAL BRANCH (UTMB), Galveston, TX (2002–2006)

### CLINICAL PRACTICE SPECIALIST-GERIATRICS

Lead pharmacist for 56 bed Acute Care for the Elderly (ACE) Unit. Rounded and rendered recommendations (based on age, kinetics, & renal function) to medical team. Evaluated narrow therapeutic medications (i.e. warfarin, digoxin, & phenytoin) based on serum drug levels. Conducted pharmacokinetic monitoring for vancomycin and aminoglycosides. Participated in interdisciplinary team rounds. Provided discharge patient/caregiver medication education and drug information to physicians, nurses, & healthcare providers. Performed quality assurance audits. Performed order entry as needed. Provided geriatric pharmacology education. Updated medical and nursing staff about pharmacy formulary changes, drug shortages, and new/revised pharmacy protocols as needed. Preceptor to pharmacy students & residents. **Significant Clinical Initiative - Pioneered follow-up telephone survey for recently discharged patients.**

- Interviewed prospective pharmacy resident applicants and candidates
- Prepared monographs for Pharmacy and Therapeutics Committee’s new medication formulary requests.
- Chaired monthly benchmark meeting.

UNIVERSITY OF TEXAS MEDICAL BRANCH, Galveston, TX (2001–2002)

### DECENTRALIZED PHARMACIST

Performed order entry. Monitored patients’ total drug therapy for effectiveness, adverse reactions, toxicities, and drug interactions and made recommendations as needed. Evaluated narrow therapeutic medications (i.e. warfarin, digoxin, & phenytoin) based on serum drug levels. Provided drug information to physicians, nurses and other healthcare providers. Counseled patients on medication regimens. Supervised the activities of supportive personnel. Prepared medications for dispensing to outpatients. Assisted with training new employees.

## HONORS AND AWARDS

Medication Safety Award: Recognized Leader in Patient Safety - CHI St Luke’s Health (2015)

Clinical Pharmacist Mentor of the Year - St Luke’s Episcopal Hospital (2009)

Distinguished Young Pharmacist Award - Lambda Kappa Sigma Professional Fraternity (2006)

## ADDITIONAL TRAINING

### Disease Pharmacotherapy Traineeship (2003)

American Society of Consultant Pharmacists & Merck Long-Term Care Group, University of Connecticut Center on Aging, Farmington, Connecticut, and the Hebrew Home and Hospital, West Hartford, Connecticut, in collaboration with the University of Connecticut School of Pharmacy.

Thirty-five hours of didactic and hands-on continuing education in congestive heart failure and osteoporosis.

**Emerging Leader Class (2003)**

University of Texas Medical Branch (Galveston, TX)

Six weeks of leadership training (effective leadership, conflict resolution, etc.)

**Pain Management Traineeship (2003)**

American Society of Consultant Pharmacists & Jansen Long-Term Care Group

Hospice House (Cleveland, Ohio)

Thirty-five hours of didactic and hands-on continuing education in pain management and palliative care programs.

Intensive training to influence appropriateness, effectiveness, and safety of treatments for pain.

**PUBLICATIONS**

**Charles C**, Varkey D, Putney K. Enhancing the Safety and Efficacy of Pharmacotherapy in the Aging Population. *The Consultant Pharmacist*. 2015.

Lehman C, **Charles C**. Medications and Lab Values. In: Mauk. *Gerontological Nursing: Competencies for Care*. Jones and Bartlett 2006: 260-283.

Lehman C, **Charles C**. Pharmacology Update: Oral Medications and Type II Diabetes. *Association of Rehabilitation Nurses (ARN) Network*. Vol. 23 (2): p 5, 2006.

Lehman C, **Charles C**. Pharmacology Update: Constipation Management Update. *ARN Network*. Vol. 22 (4): p 3, 2005.

Lehman C, **Charles C**. Pharmacology Update: Using Opioids for Pain Management. *ARN Network*. Vol. 22 (2): p 3, 2005.

Lehman C, **Charles C**. Pharmacology Update: Adverse Drug Events: Implications for the Rehabilitation Nurse. *ARN Network*. Vol. 22 (1): p 3, 2005.

**PROFESSIONAL PRESENTATIONS**

“Enhancing the Safety and Efficacy of Pharmacotherapy in the Aging Population.” (Poster Presentation.) *ASCP 46<sup>th</sup> Annual Meeting*. Las Vegas, NV, 2015.

“Pharmacology in Elderly Patients.” Lecture Series in Basic Geriatrics and Gerontology Program. *BSLMC Nursing Grand Rounds*. Houston, TX, 2014. (1 CEU to participants)

“Pharmacists Enhancing the Safety and Efficacy of Pharmacotherapy in the Aging Population.” *BSLMC Pharmacy Grand Rounds*, Houston, TX, 2014.

“Linking the Beers Criteria to the Elderly ICU Patient.” *American Association of Critical Care Nurses (AACN) Houston-Gulf Coast Chapter*, Houston, TX, 2012. (1 CEU to participants)

“Discharge Plan.... is it Effective?” (Poster Presentation.) *Center on Aging Forum*. UTMB, Galveston, TX, 2003.

**RECURRING LECTURES**

**Geriatric Pharmacotherapy**, Baylor St Luke’s Medical Center (2013–Present)

**Introduction to Clinical Pharmacy**, Texas Southern University College of Pharmacy & Health Sciences (2002–2008)

**Basic Concepts in Geriatric Pharmacology**, University of Texas Medical Branch (2002–2006)

## AFFILIATIONS & LEADERSHIP

AMERICAN ASSOCIATION OF COLLEGES OF PHARMACY

2019 Delegate for Texas Southern University College of Pharmacy and Health Sciences

AMERICAN SOCIETY OF HEALTH-SYSTEM PHARMACISTS

LAMBDA KAPPA SIGMA (LKS) PHARMACEUTICAL FRATERNITY

**Faculty Advisor** (2018)

**Regional Supervisor** (2002–2008) Three-term alumni regional supervisor for University of Georgia, University of Kentucky, and Texas Southern University LKS Chapters. Coordinated with deans, faculty, and chapter student leadership to ensure organization uniformity and compliance with bylaws.

AMERICAN SOCIETY OF CONSULTANT PHARMACISTS

**Mentor, Traineeship Programs** (2004–2006)

DILLARD UNIVERSITY HOUSTON AND NATIONAL ALUMNI ASSOCIATIONS

ALPHA KAPPA ALPHA, INCORPORATED

**Chairman, Health Committee** – Alpha Kappa Omega Chapter (2015–2016)

Oversee and coordinate health initiatives to promote city-wide community wellness events. Local Partners:

- Alzheimer’s Association
- American Heart Association
- Sisters Network (National Breast Cancer Survivorship Organization)
- National Alliance of Mental Illness (NAMI)
- Depelchin Children’s Center

ST LUKE MISSIONARY BAPTIST CHURCH

**Chairman, Scholarship Committee** (2015–Present) Coordinate scholarship and graduation programs

**Health & Wellness Lecturer:** Ask the Pharmacist, Brown-bag Events

## Curriculum Vitae

A) **Name:** SELVAM CHELLIAH

B) **College or School:** College of Pharmacy and Health Sciences

C) **Department:** Pharmaceutical and Environmental Health Sciences

D) **Date and Rank of First Appointment:** 2012 Assistant Professor

E) **Secondary Appointment(s) (if any):** N/A

F) **Years Granted Towards Tenure at Time of Employment:** 6 years

G) **Current Rank:** 2018 Associate Professor

H) **Years of Academic service:**

1. Teaching and Graduate research faculty: 6.5 Years (2012-2018)

2. Postdoctoral Research Associate: 7 Years (2004-2011)

I) **Whether or not degree is terminal:** PhD

J) **Schools attended:**

1. B. Pharmacy, Dr. M.G.R. Medical University, India: (1993-1997)

2. M.S.(Pharm), National Institute of Pharmaceutical Education and Research, India:  
(1998-2000)

3. PhD, National Institute of Pharmaceutical Education and Research, India: (2000-  
2004)

K) **Degree Earned:** fields, dates

1. B. Pharmacy, Pharmacy 1998

2. M.S. (Pharm), Medicinal Chemistry, 2000

3. PhD, Natural Products and Medicinal Chemistry, 2004

L) **Special Training Programs:** fields, dates

1. TurningPoint (i-Clicker) Workshop August 24, 2012

2. Certificate of teaching for Health Professionals offered by TLEC and TSU (5  
modules) between October and December 2014.

3. Curricula Revision Kickoff Workshop from June 22-24, 2016, University of  
Texas at Tyler.

4. Collaborative Curricular Development (CCD) workshop, July 6-7, 2016.

M) **Field(s) of Interest**

1. Teaching: Medicinal Chemistry, Principles of drug action, Drug metabolism, Bioethics, Advanced Medicinal Chemistry, Advanced Organic Chemistry, Natural Products, Drug Design, Biochemistry
2. Research: Medicinal Chemistry, Lead Optimization, Structure Activity Relationship Studies (SAR), Molecular Docking, Virtual High throughput screening, Molecular Modeling, Lead discovery from Natural Source, siRNA based Drug Design, Anticancer Drug Discovery

**N) Professional Employment:**

**2018-Present: Associate Professor**, Department of Pharmaceutical and Environmental Health Sciences, Texas Southern University, Houston, TX 77004

**2012-2018: Assistant Professor**, Department of Pharmaceutical and Environmental Health Sciences, Texas Southern University, Houston, TX 77004

**2011-2012 Research Associate (Drug Delivery)**, South Dakota State university, Brookings, SD 57007

**2008-2011 Postdoctoral Research Fellow (Organic Chemistry/Nucleic Acid Chemistry)**, The State University of New York at Binghamton, Binghamton, NY 13902

**2007-2008 Research Fellow (Medicinal Chemistry)**, The University of Auckland, Auckland, New Zealand

**2004-2007 Postdoctoral Research Fellow (Medicinal Chemistry)**, Paris Descartes University CNRS, Paris, France

**O) Consultantships and professional services: dates**

**Professional services**

**JOURNAL REVIEWER**

Serving as an ad hoc reviewer for 17 journals

1. Journal of Molecular Graphics and Modeling: Elsevier, impact factor: 2.325
2. Bioorganic & Medicinal Chemistry, Elsevier, impact factor: 2.951

3. SAR and QSAR in Environmental Research: Taylor and Francis, impact factor: 1.667
4. ChemMedChem, Wiley, impact factor: 2.968
5. Medicinal Chemistry Research, Springer, impact factor: 1.402
6. ACS Medicinal Chemistry Letters, American Chemical Society, impact factor: 3.120
7. Phytotherapy Research, Wiley, impact factor: 2.66
8. Journal of Biomedical Materials Research: Part A, Wiley, impact factor: 3.369
9. New Journal of Chemistry, Royal Society of Chemistry, impact factor: 3.269
10. Dalton Transactions, Royal Society of Chemistry, impact factor: 4.029
11. European Journal of Medicinal Chemistry, Elsevier, impact factor: 4.519
12. Bioorganic & Medicinal Chemistry Letters, Elsevier, impact factor: 2.454
13. Chemical Biology & Drug Design, Wiley, impact factor: 2.396
14. Life sciences, Elsevier, impact factor: 2.936
15. Tetrahedron Letters, Elsevier, impact factor: 2.193
16. Chemical Research in Toxicology, American Chemical Society, impact factor: 3.278
17. Nature Scientific Reports, Nature, impact factor: 4.847

### **International PhD Thesis Evaluation**

1. **2015:** Thesis title "Analytical Method Development and Validation for Selected Drugs in Pharmaceutical Formulation and Dissolution Media by Chromatographic Techniques" (Mr. Madhukkar Akkala), Annamalai University, India
2. **2016:** Thesis entitled " Method Development and Validation for Simultaneous Estimation of Biomarker and Drug: A Tool for Assessing the Prognosis of Diabetes" (Mr. James D Terish Bina), Annamalai University, India
3. **2017:** Thesis entitled " Pharmacognostical, phytochemical and pharmacological screening of *Begonia trichocarpa* Dalz" (Ms. Sindhu Jose), Annamalai University, India
4. **2017:** Thesis entitled " Physiochemical, Pharmacognostical and Pharmacological activity of some bioactive south Indian medicinal plants " (Mr. Somnath De), Annamalai University, India

5. **2017:** Thesis entitled "Collagen based functional and biomimetic hybrid constructs: design, synthesis and evaluation for tissue engineering applications." (R. Murali), University of Madras, India

**P) Organizations: memberships and offices held**

2012-2014 Member, American Association of Colleges of Pharmacy.

2015-2016 Member, American Chemical Society.

2017-2018 Member, American Chemical Society.

2017-2018 Member, American Society for Biochemistry and Molecular Biology

**Q) Fellowships and Honors**

1. CNRS (Centre national de la recherche scientifique) Postdoctoral fellowship (2004 - 2005)
2. CNRS (Centre national de la recherche scientifique) Postdoctoral fellowship (2005 – 2007)
3. Qualified in all India GATE (Graduate Aptitude Test in Engineering) 1998 examination with 95.85 percentile and awarded scholarship.
4. Qualified in all India entrance exam conducted by NIPER and awarded senior research fellowship (SRF) (2000-2004).
5. Worked as editorial board assistance in CRIPS (Current Research & Information on Pharmaceutical Sciences), a quarterly magazine released from NIPER.

**R) Awards and Prizes**

1. Outstanding Reviewer - Bioorganic & Medicinal Chemistry, 2015 (impact factor: 2.951)

**S) Grants**

**Funded grants**

1. 2012-2013 Principal Investigator, TSU seed grant, Development of chemically modified small interfering RNAs (siRNAs) to enhance gene silencing potency and nuclease stability.  
\$9000.00

2. 2015 TSU Travel grant to present poster at 249<sup>th</sup> ACS National Meeting, Denver, Co, Performance of Structure based and Ligand based Virtual Screening Methods for Ten selected Anti-cancer Targets. \$1500.00
3. 2015-2016 Principal Investigator, RCMI Pilot Project, Ligand Based and Structure Based Design of Novel Pim-1 Kinase Inhibitors, \$32000.00

#### **Submitted but not funded grants**

1. 2013 Principal Investigator, American Association of Colleges of Pharmacy, Design and Synthesis of Curcumin analogues for anti-prostate cancer activity , \$10000.00
2. 2014 Principal Investigator, Melanoma Research Alliance, Delivery of cell penetrating antagomir- $\alpha$ -santalol conjugate to silence miR-221 function and suppress the progression of melanoma, \$225000.00/3 years
3. 2014 Principal Investigator, Welch Foundation, Discovery and Development of Novel PDE 10a Inhibitors for the Treatment of Schizophrenia, \$180000.00/3 years
4. 2015 Co-Investigator, Department of Defense, Overcoming Breast Cancer Endocrine Resistance by Targeting ER/SPOP Axis, \$160650.00/3 years
5. 2017 Co-Principal Investigator, CPRIT, Novel curcuminoid analog drugs for Prostrate and Brain Cancer'. High-Impact/High-Risk Research Awards, US\$ 200,000

#### **T) Scholarship**

#### **Peer-reviewed Publications**

1. **Selvam C**, Lemasson I. A, Brabet I, Oueslati N, Karaman B, Cabaye A, Tora A. S, Commare B, Courtiol T, Cesarini S, McCort-Tranchepain I, Rigault D, Mony L, Bessiron T, McLean H, Leroux F. R, Colobert F, Daniel H, Goupil-Lamy A, Bertrand H. O, Goudet C, Pin J. P, Acher F. C. Increased Potency and Selectivity for Group III Metabotropic Glutamate Receptor Agonists Binding at Dual sites. *J. Med Chem.* **2018**, *61*, 1969-1989.
2. Jordan, B. C. kumar, B. Thilagavathi, R. Yadhav, A. Kumar, P. **Selvam, C.** Synthesis, evaluation of cytotoxic properties of promising curcumin analogues and investigation of possible molecular mechanisms. *Chemical Biol Drug Des.* **2018**, *91*, 332-337.

3. **Selvam, C.**, Mutisya, D., Prakash, S., Ranganna, K., Thilagavathi, R. Therapeutic potential of chemically modified siRNA: Recent trends, *Chemical biology & Drug Design*, **2017**, *90*, 665-678.
4. **Selvam, C.**, Jordan, B.C., Prakash, S., Mutisya, D., Thilagavathi, R. Pterocarpan scaffold: A natural lead molecule with diverse pharmacological properties, *European journal of Medicinal Chemistry*, **2017**, *128*, 219-236.
5. Jordan, B. C, Mock, C. D., Thilagavathi, R, **Selvam, C.** Molecular Mechanisms of Curcumin and Its Semisynthetic Analogues. *Life Sciences*, **2016**, *152*, 135-144.
6. **Selvam C**, Thilagavathi R, Narasimhan B, Kumar P, Jordan BC, Ranganna K. Computer-aided Design of Novel Allosteric modulators of metabotropic glutamate receptor 5 (mGluR5): Comparative Molecular Field Analysis of aryl ether derivatives, *Bioorg Med Chem Lett*. **2016**, *26*, 1140-1144.
7. Thilagavathi, R.; **Selvam, C.** Performance Evaluation of structure based and ligand based virtual screening methods on ten selected anticancer targets. *Bioorg. Med. Chem. Lett*. **2015**, *25*, 4632-4636.
8. **Selvam, C.**; Acher, F. Expeditious Synthesis of bis-( $\alpha$ -hydroxyalkyl)phosphinic Acid Using N-O-bis (trimethylsilyl)acetamide (BSA). *Curr. Org. Synth*. **2015**. *12*, 168-172.
9. Mock, C.D.; Jordan, B.C.; **Selvam, C.** Recent advances of curcumin and its analogues in breast cancer prevention and treatment. *RSC Adv*. **2015**, *5*, 75575-75588.
10. Mutisya, D.; **Selvam, C.**; Lunstand, B.D.; Pallan, P.S.; Haas, A.; Leake, D.; Egli, M.; Rozners, E. Amides are excellent mimics of phosphate internucleoside linkage and are well tolerated in short interfering RNAs. *Nucleic Acid Res*. **2014**. *42*, 6542-6551.
11. Mutisya, D.; **Selvam, C.**; Kennedy, S.; Rozners, E. Synthesis and Properties of Triazole Linked RNA. *Bioorg. Med. Chem. Lett*. **2011**. *21*, 3420-3422.
12. **Selvam, C.**; Thomas, S.; Abbott, J.; Kennedy, S.; Rozners, E. Amides Are Excellent Mimics of Phosphate Linkages in RNA. *Angew. Chem., Int. Ed*. **2011**. *50*, 2068-2070.
13. Acher, F.C.; **Selvam, C.**; Pin, J-P.; Goudet, C.; Bertrand, H-O.; A critical pocket close to the glutamate binding site of mGlu receptors opens new possibilities for agonist design. *Neuropharmacology*. **2011**. *60*, 102-107.

14. Jachak, S. M; Gautam, R.; Madhan, H.; Srivastava, A.; Khan, T. Anti-inflammatory, cyclooxygenase inhibitory and antioxidant activities of standardized extracts of *Tridax procumbens* L *Fitoterapia*. **2011**, 82, 173-177
15. **Selvam, C.**; Oueslati, N.; Lemasson, I.A.; Brabet, I.; Rigault, D.; Courtiol, T.; Cesarini, S.; Triballeau, N.; Bertrand, H-O.; Goudet, C.; Pin, J-P.; Acher, F.C. A virtual screening hit reveals new possibilities to develop group III metabotropic glutamate receptor agonists. *J. Med. Chem.* **2010**, 53, 2797-2813.
16. Beurrier, C.; Lopez, S.; Revy, D.; **Selvam, C.**; Goudet, C.; Lherondel, M.; Gubellini, L.; Kerkerian-LeGoff, L.; Acher, F.; Pin, J-P.; Amalric, M. Electrophysiological and behavioral evidence that modulation of metabotropic glutamate receptor 4 with a new agonist reverses experimental parkinsonism. *FASEB J.* **2009**. 23. 3619-3628.
17. Cuomo, D.; Martella, G.; Barabino, E.; Platania, P.; Vita, D.; Madeo, G.; **Selvam, C.**; Goudet, C.; Oueslati, N.; Pin, J-P.; Acher, F.; Pisani, A.; Beurrier, C.; Melon, C.; Goff, L.K.; Gubellini, P. Metabotropic glutamate receptor subtype 4 selectively modulates both glutamate and GABA transmission in the striatum: implications for Parkinson's disease treatment. *J. Neurochem.* **2009**, 109, 1096-1105.
18. **Selvam, C.**; Oueslati, N; Brabet, I; Goudet, H.-O; Pin, J.-P; Acher, F. L-(+)-2-Amino-4-thiophosphonobutyric Acid (L-thioAP4), a New Potent Agonist of Group III Metabotropic Glutamate Receptors: Increased Distal Acidity Affords Enhanced Potency. *J. Med. Chem.* **2007**, 50, 4656-4664.
19. **Selvam, C.**; Jachak, S. M.; Thilagavathi, R.; Chakraborti, A. K. Design, synthesis, biological evaluation and molecular docking of curcumin analogues as antioxidant, cyclooxygenase inhibitory and anti-inflammatory agents. *Bioorg. Med. Chem. Lett.* **2005**, 15, 1793-1797.
20. Kumar, R.; **Selvam, C.**; Kaur, G; Chakraborti, A. K. Microwave-Assisted Direct Synthesis of 2-Substituted Benzoxazoles from Carboxylic Acids under Catalyst and Solvent-Free Conditions. *Synlett*, **2005**, 9, 1401-1404.
21. **Selvam, C.**; Jachak, S. M.; Gnana Oli, R.; Thilagavathi, R.; Chakraborti, A. K.; Bhutani, K. K. New Cyclooxygenase (COX) Inhibitory Pterocarpan from *Indigofera aspalathoides*: Structure Elucidation and Determination of Binding Orientations in Active Sites of the Enzyme by Molecular Docking. *Tetrahedron Letters*. **2004**, 45, 4311-4314.

22. Mittal, S.; Malde, A.; **Selvam, C.**; Arun, K.H.S.; Johar, P.S.; Jachak, S.M.; Ramarao, P.; Bharatam, P.V.; Chawla, H.P.S. Synthesis and evaluation of *S*-4-(3-thienyl) phenyl -  $\alpha$ -methylacetic acid. *Bioorg. Med. Chem. Lett.* **2004**, *14*, 979-982.
23. Chakraborti, A. K.; **Selvam, C.**; Kaur, G.; Bhagat, S. An Efficient Synthesis of Benzothiazoles by Direct Condensation of Carboxylic Acids with 2-Aminothiophenol under Microwave Irradiation. *Synlett*, **2004**, *5*, 851-855.
24. **Selvam, C.**; Jachak, S. M.; Bhutani, K. K. Cyclooxygenase inhibitory flavonoids from the stem bark of *Semecarpus anacardium*. *Phytother. Res.* **2004**, *18*, 582-584.
25. **Selvam, C.**; Jachak, S. M. Studies on anti-inflammatory activity and *in vitro* cyclooxygenase inhibitory activity of Tetrahydroamentoflavone from the seeds of *Semecarpus anacardium*. *J. Ethnopharmacol.* **2004**, *95*, 209-212.

## Patents

1. Acher, F.; **Selvam, C.**; Pin, J.P. Diastereoisomers of hypophosphorous acid derivatives. **PCT Patent, WO2010106526**, 2010.
2. Acher, F.; **Selvam, C.**; Pin, J.P. Thiophosphi(o)nic acid derivatives and their therapeutical applications. **PCT Patent, WO2009016520**, 2009.
3. Acher, F.; **Selvam, C.**; Triballeau, N.; Pin, J.P.; Bertrand, H.-O. Preparation of hypophosphorous acid derivatives, particularly substituted hypophosphorous acid-containing glycine derivatives, as agonist and antagonists of metabotropic glutamate receptors, especially mGluR4. **PCT Patent, WO2007052169** (2007), **US -2009-0170813-A1** (2009).
4. Acher, F.; **Selvam, C.**; Triballeau, N.; Pin, J.P.; Bertrand, H.-O. *US Provisional Patent*, October **2005**, 60/743,483.
5. **Selvam, C.**; Jachak, S.M.; Thilagavathi, R.; Chakraborti, A. K. Novel Anti-inflammatory and Antioxidant Agents. *Indian Patent*, **2004**, DEL/IP-1704.
6. **Selvam, C.**; Jachak, S.M.; Gnana Oli, R.; Bhutani, K. K. New Cyclooxygenase (COX) Inhibitory Compounds from *Indigofera aspalathoides*. *Indian Patent*, **2003**, DEL/IP-1268

## Presentations/Abstract (From 2012 to 2018)

1. **Selvam C**; Jordan BC; Doshi S. Discovery of novel hit molecules for Sphingosine kinase-1 inhibitor activity by structure based virtual screening. 249<sup>th</sup> ACS National Meeting, Denver, Co. March 22, 2015.
2. **Selvam C**; Ramasamy, T. Performance of structure based and ligand based virtual screening methods for ten selected anticancer targets. 249<sup>th</sup> ACS National Meeting, Denver, Co. March 22, 2015.
3. Mock CD; Jordan BC; **Selvam C**. Discovery of hit molecules by virtual high throughput screening for phosphodiesterase 10A inhibitory activity. National Conference on Health and Disparities. National Harbor, MD. December 1-3, 2014.
4. Jordan BC; Mock CD; **Selvam C**. Design and Synthesis of Novel Curcumin analogues for anti-prostate cancer. AAPS Annual Meeting and Exposition. San Antonio, TX. September 2013.
5. M.L. Gray, A. Alatawi, R. Alshaman, O Mathew, K. Ranganna, Z. Yousefipour, S. Milton, **S. Chelliah**. In Vivo Evaluation of Butyrate, a Histone Dacetylase Inhibitor Effect on Lipid Profile of Apo E<sup>-/-</sup> Mice Fed on Atherogenic Diet. Experimental Biology, April 2 – 6, 2016.
6. Shivachar, A. C.; Nnamdiebere, J.E.; Jordan, B.C.; **Selvam, C.**; Mathews, O.P.; Ranganna, K. Curcuminoids Suppress Cell Proliferation of Glioblastoma by Down-regulation of CXCR4 Signaling Pathway. Experimental Biology, April 22 – 26, 2017.
7. Mathews, O.P.; Ranganna, K.; **Selvam, C.**; Yousefipour, Z. Signaling Pathways Implicated in Butyrate-Arrested Vascular Smooth Muscle Cell Proliferation. Experimental Biology, April 22 – 26, 2017.
8. Selvam, C., Mock, C.D., Mathews, O.P.; Ranganna, K Discovery of Vascular Endothelial Growth Factor Receptor-2 (VEGFR-2) Inhibitors by Ligand-based Virtual High Throughput Screening. Experimental Biology, April 21-25, 2018.

U) **Teaching (classroom, graduate and professional)**

**Pharm D. courses**

1. PHAR 438 Principles of Drug Action
2. PHAR 418 Principles of Drug Action Lab

3. PHAR 441 Biochemistry and Human Diseases
4. PHAR 643 Pharmacotherapy VI - Endocrine System Disorders
5. PHAR 640 Immune Systems and Infectious Diseases Pharmacotherapy
6. PHAR 644 Pharmacotherapy VII – Integumentary System, Eye, and Ear Disorders
7. PHAR 410 Introduction to Medicinal Chemistry
8. PHAR 530: Principles of Drug Action ( PODA I)
9. PHAR 520 Pharmacotherapy Skills Lab I
10. PHAR 542: Nervous System and Psychiatric Disorders

### **Graduate Courses**

1. PHS 900 Biosynthesis and Drug Metabolism
2. PHS 813 Advanced Organic Chemistry
3. PHS 905 Advanced Medicinal Chemistry
4. PHS 804 Seminar/Grantsmanship
5. PHS 807 Experimental Design/Instrumentation/clinical Measurement
6. PHS 800 Bioethics
7. PHS 803 Seminar/ Special Topics

### **1. Other contributions to the area of teaching**

#### **1. Course Development**

#### **PHS 900 Biosynthesis and Drug Metabolism**

- a. Included topics such as Clinical implications of drug metabolism, Drug-Drug interactions and Drug Food/Herbal interactions.
- b. Students were made to understand the implications of metabolism in the design of pro-drugs and development of safe and efficacious therapeutic agents.
- c. Students were exposed to hands-on training in molecular modeling techniques to predict drug metabolism for New Chemical Entities (NCE).

#### **PHS 813 Advanced Organic Chemistry**

- a. The new course is designed to introduce graduate students the theory, principles and applications of organic chemistry in pharmaceutical sciences.
- b. Students acquired knowledge of organic medicinal chemistry principles and focused on structure determination, stereochemistry, Organic Chemistry in drug design and drug action, separation methods in pharmaceutical chemistry.
- d. Allowed students to have hands-on experience in analysis of NMR, IR, and LCMS spectral data.

### **PHS 905 Advanced Medicinal Chemistry**

- a. This new course is designed to introduce graduate students the theory and applications of medicinal chemistry in pharmaceutical sciences
- b. Students were exposed to tools to calculate physicochemical properties of drug molecules.
- c. Hands-on training was provided for the prediction of log P values for the marketed drug molecules.
- d. Students were exposed to the concept of drug likeness and were given practical exposure for the prediction of drug like properties.

### **PHS 807 Experimental Design/Instrumentation**

- a. Graduate students were given hands-on training to analyze the receptor/enzyme active site analysis using molecular modeling program.
- b. Students experienced the analysis of non-bonded interactions involved in protein-ligand complexes using molecular modeling tools which improved their knowledge in the drug design and discovery process.

## **V) Graduate contributions- —Theses and Dissertations**

### **PhD Thesis advisor**

- a. **2012-2017: Thesis advisor**, Graduate PhD thesis entitled “Discovery of vascular endothelial growth factor receptor-2 (VEGFR-2) inhibitors by ligand-based virtual high-throughput screening” (Ms. Charlotta D. Mock)
- b. **2012-2017: Thesis advisor**, Graduate PhD thesis entitled “Design and synthesis of new curcumin analogues for anticancer activity against prostate, ovarian, cervical, head and neck cancer” (Mr. Brian C. Jordan)

#### **PhD Dissertations Committee Member**

- c. **2014:** Keila Robinson, Thesis/Dissertation Committee member, Graduate PhD thesis entitled “Pre-Formulation and Pharmacokinetic Evaluation of Resveratrol”.
- d. **2016:** Lyndsey White, Thesis/Dissertation Committee member, Graduate PhD thesis entitled “Determination of metabolites by LCMS/MS: Applications to validation of D-mannose as a cancer biomarker and to characterize metabolism of oncracin-266
- e. **2016:** Oscar Ekpenyong, Thesis/Dissertation Committee member, Graduate PhD thesis entitled “Pre-Clinical Studies of GMC1, A Novel Molecule Targeting FKBP52 for the Treatment of Castration Resistant Prostate Cancer, and CLBQ14 Targeting Methionine Amino-Peptidase for the Treatment of Infectious Diseases.
- f. **2017:** Candace J. Cooper, Thesis/Dissertation Committee member, Graduate PhD thesis entitled “The Preclinical Development of NC2459, A Novel Agent for Cutaneous Leishmaniasis”

#### **W) Service to the University, the Profession and the Community:**

- 1) Department Curriculum committee: committee member: Current
- 2) Department Admission and Academic Progression Committee: : committee member : current
- 3) College Examination committee: committee member: current
- 4) Faculty search committee member: 2017
- 5) Executive Director TEAM Center: Search committee member: 2016

- 6) Faculty Developmental Leave (FDL): committee member: 2016
- 7) Regular member of Graduate Faculty
- 8) Program assessment & Evaluation Committee of PhD graduate program in Pharmaceutical Sciences: 2013-2014
- 9) Thesis and dissertation committee member (6 PhD students)
- 10) International PhD Thesis evaluation (5 PhD students)
- 11) Serving as an ad hoc reviewer for 17 journals
- 12) Participated in 2016 Pharmaceutical Sciences curriculum development (UT Tyler)
- 13) Mentored Summer Undergraduate research Program students in 2013 and 2014
- 14) Served as a Dissertation chair (Thesis Advisor) for two PhD graduate students
- 15) Served as a judge for TSU research week poster presentations, 2015

## **CURRICULUM VITAE**

**Lily Kung Cheung, BSP Pharm, Pharm.D.**

Work address: Texas Southern University  
Department of Pharmacy Practice  
College of Pharmacy and Health Sciences  
3100 Cleburne St.  
Houston, TX 77004  
Phone: (713) 313-1215  
Email: Lily.Cheung@tsu.edu

### **EDUCATION**

1985 - 1987 Doctor of Pharmacy  
Bachelor of Science in Pharmacy  
Texas Southern University, Houston, Texas

1972 - 1974 Graduate School, Biochemical Pharmacology  
State University of New York at Buffalo, New York

1968 - 1972 Bachelor of Science in Pharmacy  
National Taiwan University, Taipei, Taiwan

### **APPOINTMENTS AND POSITIONS**

2016 – Present Associate Professor with Tenure  
Department of Pharmacy Practice  
College of Pharmacy and Health Sciences  
Texas Southern University  
Houston, TX

2010 - 2016 Assistant Professor  
Department of Pharmacy Practice  
College of Pharmacy and Health Sciences  
Texas Southern University  
Houston, TX

2004 – 2009 Clinical Pharmacy Manager  
Department of Pharmacy Services  
Hospital of the University of Pennsylvania  
Philadelphia, PA

1993 - 2004 Pharmacy Supervisor, Pharmaceutical Care/ Professional  
Development

Department of Pharmacy Services  
Hospital of the University of Pennsylvania  
Philadelphia, PA

- 1989 - 1993      Clinical Pharmacy Specialist in Pharmacokinetics  
Department of Pharmacy Services  
Hospital of the University of Pennsylvania  
Philadelphia, PA
- 2005 – 2009      Adjunct Faculty  
1996 – 2000      Department of Pharmacy Practice and Administration  
1989 – 1993      Philadelphia College of Pharmacy and Science (PCPS, now USP)  
Philadelphia, PA
- 1988 – 1989      Assistant Professor of Pharmacy  
Department of Pharmacy Practice  
College of Pharmacy and Health Sciences  
Texas Southern University  
Houston, TX
- 1980 – 1985      Senior Research Assistant  
Department of Chemotherapy Research  
University of Texas MD Anderson Cancer Center  
Houston TX
- 1978 – 1980      Pharmacy Intern  
Rite Aid Pharmacy  
Rochester, NY
- 1975 – 1978      Research Assistant  
Department of Pharmacology  
University of Rochester  
Rochester, NY
- LICENSURE**      Registered Pharmacist in Texas and Pennsylvania, USA

**COURSE COORDINATION:**

1. Coordinate Phar 511, Texas Southern University – Pharmacy Practice Lab III, Fall semester, 2010 – 2016.
2. Co-Coordinate Phar 510, Texas Southern University – Integrated Lab II, Spring 2017
3. Coordinate Phar 501, Pharmacotherapy IB Renal system, Fall 2017 – present.
4. Coordinate Phar 523, Nonprescription Products, Spring 2018 – present.

**ADMINISTRATIVE EXPERIENCE :**

At the Hospital of the University of Pennsylvania

1. Coordinate the Drug Use and Effects Committee (DUEC) – a multi-disciplinary, hospital-wide subcommittee of the Pharmacy and Therapeutics Committee, 2004 - 2009.

2. Report serious/significant Adverse Drug Events occurred at the Hospital of the University of Pennsylvania to FDA and manufacturers, 2004 - 2009.
3. Manage drug shortages, inform all parties involved in the hospital and suggest alternatives, 2004 - 2009.
4. Develop and implement the pharmacy technician training program for the National Board Certification Examination, 2003 - 2004.
5. Develop the Pharmacy Technician Career Ladder, 1999.
6. Actively participate in the Pharmacy and Nursing Committee – a subcommittee of the Pharmacy and Therapeutics Committee at the Hospital of the University of Pennsylvania, 1998 – 2004.
7. Develop and implement the Target Drug Program to improve patient care, 1997 – present.
8. Develop and implement the Pharmacist Career Ladder, 1996 – 2004.
9. Develop and implement the Pharmacist Orientation Program, 1996 – 2003.
10. Serve as Team Leader for the decentralized pharmacy teams, 1995 – 2004.
11. Develop, implement and coordinate the pharmacist professional development programs, 1993 – 2004.
12. Develop and implement quality improvement processes for the Pharmacist Clinical Intervention program, 1992 – 2009.
13. Take charge of the Pharmacist Intervention Program, 1992 – 2009.

#### At Texas Southern University

1. Chair, Faculty Search Committee, Department of Pharmacy Practice, 2016-2018
2. Member, Faculty Evaluation Rank and Tenure Committee, Department of Pharmacy Practice, 2017- present.
3. Member, Grievance Committee (Non-Academic/Professionalism), 2017-present.
4. Member, Dismissal Appeal Sub-Committee, 2016-present.

#### **TEACHING EXPERIENCE:**

At the Hospital of the University of Pennsylvania:

1. Orient pharmacy residents on “How to Conduct a Drug Use Evaluation”, 2004 – 2009.
2. Orient and precept pharmacy residents and students on “How to report Adverse Drug Events”, 2004 – 2009.
3. Precept PharmD students from the University of Sciences in Philadelphia on General Medicine rotations, 2005 – 2008.
4. Guide Clinical Pharmacists reviewing the “Pharmacotherapy Self-Assessment Program” to prepare for the Board Certified Pharmacotherapy Specialist (BCPS) examination, 2004 – 2005.
5. Train pharmacy students from the Philadelphia College of Pharmacy and Sciences on “Introduction to Patient Care” courses, 1996 – 2000.
6. Develop the Clinical Pharmacokinetics training module for Clinical Pharmacists to provide pharmacokinetic monitoring service for patients, 1994 – 2004.
7. Guide Clinical Pharmacists for providing pharmaceutical care to patients, 1993 – 2009.
8. Train post-PharmD pharmacy residents and PharmD students on Clinical Pharmacokinetics monitoring, 1989 – 2000.

At Texas Southern University:

1. Precept pharmacy students on General Medicine rotation, 1988 – 1989.
2. Lecture on Therapeutics courses for both B.S. and PharmD students, 1988 – 1989.
3. Lectures on Applied Pharmacokinetics (Phar 636), Applied Pharmacokinetics Lab (Phar 619), Pharmacotherapeutics (Phar 630 and 633), Pharmacy Practice III - Special Populations (Phar 522), Pharmacy Practice Lab III (Phar 511), Prescription Practice (Phar 635), Patient Counseling (Phar 632), and IPPE (Phar 619), 2010 -
4. Precept PharmD students on Internal Medicine rotations (Pharm 753) at Ben Taub General Hospital, 2010 – Present.
5. Teach the following courses:
  - Phar 636 Clinical Pharmacokinetics- Spring, Summer, Fall 2010, Spring 2011
  - Phar 619 Applied Pharmacokinetics Lab – Spring, Summer, Fall 2010, Spring 2011
  - Phar 618 IPPE: Spring and Fall, 2010
  - Phar 522 Pharmacy Practice III: Special Populations, Fall 2010 - present
  - Phar 511 Pharmacy Practice Lab III: Fall 2010 - present
  - Phar 630 Pharmacotherapeutics I, Summer 2010, 2011, Fall of 2011
  - Phar 633 Pharmacotherapeutics II, Summer 2010 and 2011
  - Phar 411 Pharmacy Practice II, Summer 2011
  - Phar 635 Prescription Practice, Fall 2010 and 2011
  - Phar 429 Emergency Preparedness for Pharmacy, Spring 2012 – present
  - Phar 430 Ethics in Pharmacy, Spring 2012 - present
  - Phar 542 Pharmacotherapy I, Spring 2012 – present (Insomnia, Stroke, Bipolar Disorders)
  - Phar 644 Pharmacotherapy VII, Spring 2012 – present (Atopic Dermatitis, AMD)
  - Phar 642 Pharmacotherapy V, Spring 2013 – present (Viral Hepatitis)
  - Phar 543 Pharmacotherapy II, Summer 2013 – present (HF, Renal dosing and dialysis)
  - Phar 510 Pharmacotherapy Skills Lab I, Summer 2014, 2015
6. Precept PharmD students on Research rotations (Pharm 772) in 2011 - present
7. Precept PharmD students on Seminar rotations (Pharm 771) in 2011 - present

### **CLINICAL PRACTICE EXPERIENCE:**

At the Hospital of the University of Pennsylvania:

1. Coordinate the Adverse Drug Events Reporting program in the hospital, 2004 – 2009.
2. Coordinate Drug Use Evaluation (DUE) projects for pharmacy residents, 2004 – 2009.
3. Participate in the development and implementation of medication outcome improvement initiatives, 1996 – 2009.
4. Develop a monitoring system for the use of high cost and high volume drugs, 1996 – 2004.
5. Develop evidence-based Drug Use Guidelines for physicians and pharmacists to provide cost-effective drug therapies for patients. The guidelines were approved by the Pharmacy & Therapeutics Committee and the Medical Board, implemented hospital-wide. The guidelines developed including the use of calcium channel blockers, intravenous immunoglobulin, erythropoietin, anti-emetics, phenytoin dosing guidelines, etc., 1995 -2000.
6. Participate in the adverse drug events reporting service, 1995 -1999.

7. Develop and implement quality improvement processes for the Clinical Pharmacokinetics Monitoring service, 1991 – 1993.
8. Provide clinical pharmacokinetic monitoring for patients receiving drug with narrow therapeutic indexes, 1989 – 2006.
9. Provide education to pharmacists, physicians, and nurses on drug therapies, 1989 – 2009.
10. Provide recommendations to physicians and nurses to optimize patients' medication uses, 1989 – 2009.
11. Provide medication education and counseling to patients, 1989 – 2009.
12. Initiated training programs for visiting pharmacists from Taiwan, 1996.

### **RESEARCH EXPERIENCE**

1. Participate as sub-investigator in the research project of "Patient Safety Research and Practice" at University of Pennsylvania Medical Center, to examine medication errors and address practical ways to prevent their adverse outcomes – a \$7,000,000 grant was funded by the Agency for Healthcare Research and Quality (AHRQ) over 5 years, 2001 – 2006.
2. Conduct clinical research studies on drug stability, antimetabolite toxicity screening at MD Anderson Cancer Center, 1983 – 1985.
3. Conduct Phase I clinical pharmacokinetics studies on nitrosoureas. Activities included sample preparation, drug concentration determination and data analysis. Plasma and urine drug concentrations were determined by gas chromatograph-mass spectrometry (GC/MS). - MD Anderson Cancer Center, 1980 – 1983.
4. Conduct pharmacological studies of antidepressants affecting beta-adrenergic receptors in the animal models, chemical synthesis of anti-metabolite analogs, HPLC assay development and validation. – University of Rochester, 1975 – 1980.
5. Submitted a seed grant application at Texas Southern University – A Pharmacokinetic Study of the Putative Chemoprotective Agents: Resveratrol and its Novel Prodrug Acetyl-Resveratrol in Rats. 2010 (not funded)
6. Awarded seed grant of \$9,000 at Texas Southern University – Pharmacokinetic studies on sertraline and lansoprazole before and after gastric bypass surgery. 2011
7. Visiting Research Fellow at the Methodist Hospital Research Institute, Houston, TX. 2011 - present.
8. Awarded RTRN Small Grant Program of \$50,000 (July 1, 2013- June 30, 2014) entitled "Pharmacokinetic/Pharmacodynamic Studies of Metformin with Gastric Bypass Surgery". Funding Agency: National Institute on Minority Health and Health Disparities (NIMHD), of the National Institutes of Health under award number U54MD008149.
9. Awarded NIMHD/NIH Pilot Project Program of the TSU RCMI program, of \$32,000 (November 1, 2015 – October 31, 2016) entitled "Pharmacokinetic/Pharmacodynamic Study of Rosuvastatin with Gastric Bypass Surgery".

### **SERVICE EXPERIENCE – at Texas Southern University**

1. Represented Texas Southern University for the Texas Medical Center Advisory Council for Quality and Patient Safety, 2010 – Present.
2. Served as a member at the University Curriculum Council in 2010
3. Served as a member at the Assessment, Evaluation, and Improvement Committee (AEIC) at College of Pharmacy and Health Sciences, 2010 – 2015.
4. Served as a member of the Curriculum Committee at College of Pharmacy and Health Sciences, 2011 – 2014.

5. Served on the Advisory board at the Teaching and Learning Excellence Center (TLEC), 2012 – 2014.
6. Served as faculty interviewee for the Accreditation Council for Pharmacy Education (ACPE) on-site Focused Evaluation in November of 2013 and November 2015.
7. Participated and presented research project at the Opening Conference for the new TSU Confucius Institute in April 2013.
8. Served as a member on the Examination Committee, COPHS, 2014 – 2016.
9. Served as a member on the Dismissal Appeal Committee, COPHS, 2015 – Present.
10. Served as Chair on the Department Faculty Search Committee, COPHS, 2016-Present.
11. Served as a member on the Non-professional Relations Committee, COPHS, 2016-Present.

### **ADVISORY ACTIVITIES**

Served as research advisor for post-PharmD residents at the Hospital of the University of Pennsylvania:

1. Is routine therapeutic drug monitoring necessary in all patients for once-daily aminoglycoside dosing? 1995 -1996.
2. Aminoglycoside pharmacokinetics in cancer patients. 1991 – 1992.
3. Analysis and development of aminoglycoside dosing regimen for very-low-birth-weight infants. 1991 – 1992.
4. Aminoglycoside pharmacokinetics in patients at surgical intensive care units. 1989 - 1990.

Served as research advisor for PharmD students at Texas Southern University:

1. Pharmacy intervention in a concurrent cefatazidime utilization and evaluation study in a Texas Medical Center Hospital. 1989.
2. Perceived and prioritized needs of health professionals in Harris County Hospital District. 1988.
3. Clinical Pharmacokinetic Monitoring Service at Healthcare Institutions in the US: A Survey. 2010 – Student: Mbanya Herve Gilles, presented at American Society of Health-system Pharmacist annual mid-year meeting in December 2010.
4. Effects of alteplase on international normalized ratio (INR) and activated partial thromboplastin time (aPTT). 2011 – Students: Tiffany Ho and Dhaval Patel, presented at American Society of Health-system Pharmacist annual mid-year meeting in December 2011.
5. Demographic information and medication uses in morbidly obese patients undergoing bariatric surgery. 2011 – Students: Linh Nguyen and Michelle Ross, presented at American Society of Health-system Pharmacist annual mid-year meeting in December 2011.
6. Pharmacokinetic studies of selected medications before and after gastric bypass surgery. 2012 – Students: Joanne Omorebokhae and John Vu, presented at American Society of Health-system Pharmacist annual mid-year meeting in December 2012.
7. Antidepressant uses in Roux-en-Y gastric bypass surgery patients. 2013 – Students: Tram Vo and Mariam Radwan, presented at American Society of Health-system Pharmacists annual mid-year meeting in December 2013.
8. Effects of preoperative weight change in the outcomes of laparoscopic sleeve gastrectomy – Students: Phuc Jenna Pham, Victor Lee, Phuong Do, presented at American Society of Health-system Pharmacists annual mid-year meeting in December 2014.
9. Patient characteristics and medication use patterns in a laparoscopic sleeve gastrectomy patient population – Students: Victor Lee, Phuc Jenna Pham, Hongmei

- Wang, presented at American Society of Health-system Pharmacists annual mid-year meeting in December 2014
10. Impact of postoperative follow-up visits on weight loss in *Roux-en-Y* gastric bypass surgery patients – Students: Minh Do and Ferrari Wong, presented at American Society of Health-system Pharmacists annual mid-year meeting in December 2015
  11. Ethnic difference in glucose control and weight loss after gastric bypass surgery in a diabetic population – Students: Hong Tieu, Betsy Benny, and Jenna Thomas, presented at American Society of Health-system Pharmacists annual mid-year meeting in December 2016

Served in the Ph.D. Dissertation Committee at Texas Southern University:

1. Pharmacokinetic/Pharmacodynamic studies of propofol in obese patients. 2013 – 2015 – Ph.D. Student: Cheng-Hui (Stanley) Hsiao

Served in the Ph.D. Dissertation Committee at University of Houston:

1. Pharmacokinetic/Pharmacodynamic studies of metformin with gastric bypass surgery. 2014 – ongoing. Student: Asma El-Zailik

### **ADDITIONAL SPECIAL TRAININGS**

- |                    |   |
|--------------------|---|
| 2014               | Teaching and Learning Certificate – Texas Southern University   |
| 2013               | UK/NIGMS Faculty Grant Writing Workshop – University of Kentucky, Lexington KY  |
| 2013               | Write Winning Grant Proposals – Texas Southern University, Houston TX   |
| 2010<br>TX         | Grantsmanship Training Program – The Grantsmanship Center, Houston, TX  |
| 2010               | Institutional Animal Care and Use Workshops and Training – Texas Southern University, Houston TX                                  |
| 2010               | Committee for the Protection of Human Subjects (CPHS) Workshop – Texas Southern University, Houston TX                            |
| 1997               | Executive Management Seminar – American Society of Health-System Pharmacists/University of North Carolina, Durham, N.C.           |
| 1996               | Advancing Pharmaceutical Care Through Use of Clinical Skills Program – American Society of Health-System Pharmacists, Chicago, IL |
| 1995               | Human Resources Management Seminar – American Society of Health-System Pharmacists/Burroughs Wellcome, Durham, N.C.               |
| 1994<br>Dallas, TX | Abbottbase – Pharmacokinetic Systems – Abbott Laboratories, Inc.  |

### **GRANTS, AWARDS AND HONORS**

1. Received Pilot Project Program of the TSU RCMI program award (supported by the National Institute on Minority Health and Health Disparities of the National Institutes of Health) of \$32,000 (November 1, 2015 – October 31, 2016) entitled

“Pharmacokinetic/Pharmacodynamic Study of rosuvastatin with Gastric Bypass Surgery”.

2. Received RTRN Small Grant Program (supported by the National Institute on Minority Health and Health Disparities of the National Institutes of Health under award number U54MD008149) of \$47,700 (July 1, 2013- June 30, 2014) entitled “Pharmacokinetic/Pharmacodynamic Study of Metformin with Gastric Bypass Surgery”.
3. Received seed grant of \$9,000 at Texas Southern University titled “Pharmacokinetic studies on antidepressants before and after gastric bypass surgery, 2011.
4. Received a grant of \$7,000,000 as sub-investigator for the “Patient Safety Research and Practice” project funded by AHRQ, 2001 – 2006.
5. Reviewer for the Reference book “Clinical Pharmacokinetics”, 2<sup>nd</sup> Ed., published by American Society of Health-System Pharmacists, 2001.
6. Received a grant of \$5,000 from Board of Woman’s Visitors from the Hospital of the University of Pennsylvania on “Adverse Drug Events Avoidances”, 2000.
7. Recipient of the 2<sup>nd</sup> place of the U.S. National Hospital Pharmacy Quality Award sponsored by the Abbott Laboratories, with a \$5,000 institutional grant. The winning project was entitled “A Systemic Integrated Approach to Drug Use Improvement – A Heparin Story”, 1996.
8. Reviewer for the American Journal of Health-System Pharmacy and the Pharmacy & Therapeutics Journal, 1996.
9. Recipient of the Service Excellence Award, Department of Pharmacy Services, Hospital of the University of Pennsylvania, 1995.
10. Faculty investigator under the grant to institutions to encourage minority participation in graduate education program. The grant was approved and funded for \$36,000. Proposal Title: Drug interaction patterns in ambulatory geriatric patients, Texas Southern University, 1988.
11. Recipient of the Hoechst Russell Excellence in Clinical Pharmacy Award, Texas Southern University, 1987.
12. Recipient of the Research Assistantship Award, SUNY Buffalo, School of Pharmacy, 1972 – 1974.

### **PROFESSIONAL MEMBERSHIP**

American Association of College of Pharmacy (AACP)  
American College of Clinical Pharmacy (ACCP)  
American Society of Health-System Pharmacists (ASHP)  
Rho Chi Honorary Society

### **PUBLICATIONS**

1. El-Zailik A, Cheung LK, Yang W, Sherman V, Chow DS. Simultaneous LC-MS/MS analysis of simvastatin, atorvastatin, rosuvastatin and their active metabolites for plasma samples of obese patients underwent gastric bypass surgery J Pharmaceutical and Biomedical Analysis. 2018; 164:258-267.
2. Lau SWJ, Cheung LK, and Chow DS. Chapter 23, Application of pharmacokinetics to specific populations – geriatric, pediatric, and obese patients. In Applied Biopharmaceutics & Pharmacokinetics, 7<sup>th</sup> Ed. 2015, page 735-774. Eds: Weitz M, Yu A, and Shargel L.
3. Cheung LK, Lal LS, Chow DS, Sherman V. Racial disparity in short-term outcomes after gastric bypass surgery. Obes Surg 2013; 23: 2096-2103. Online publication on July 19, 2013. PMID: 23868139

4. Cheung LK, Eaton A. Age-related macular degeneration. *Pharmacotherapy* 2013; 33(8): 838-855.
5. Cheung LK, Agi R, and Hyman DJ. Warfarin resistance associated with parenteral nutrition. *Am. J. Med. Sci.* 2012; 343(3): 255-258.
6. Hennessy S, Leonard CE, Cohen A, Localio AR, Cheung LK, Strom BL, Herlim M, Yang PW, and Feldman HL. Prescriber adherence to pharmacokinetic monitoring service recommendations for aminoglycoside dosing and the risk of acute kidney injury. *Int J Clin Pharmacol Ther.* 2011; 49(9): 536-544. PMID: 21888866
3. Cheung, LK: *Women's Health Care: A Primer for Pharmacists*, a continuing education program for community pharmacists, published by the University of the Sciences in Philadelphia, 2004.
4. Okpara, AU, Van Duyn, OM, Cate, TR, Cheung, LK and Galley, MA. Concurrent ceftazidime DUE with clinical pharmacy intervention. *Hosp. Formulary* 1994; 29: 392-404.
5. Smith, RG, Cheung, LK, Feun, LG and Loo, TL. Determination of: 1-(2-chloroethyl)-3-(2,6-dioxo-3-piperidyl)-1-nitrosourea in plasma by negative chemical ionization mass spectrometry. *Biomed. Mass Spectrometry* 1983; 10(7): 404-407.
6. Smith, RG and Cheung, LK. Determination of two nitrosourea antitumor agents by chemical ionization gas chromatography - mass spectrometry. *J. Chromatography* 1982; 229: 464-469.
7. Smith, RG, Blackstock, SC, Cheung, LK, Raulston, GL, Chang, JP and Loo, TL. Pharmaceutical studies of MeCCNU in dogs by gas chromatography - mass spectrometry. *Proc. Am. Assoc. Cancer Res* 1981; 22: 270.
8. Smith, RG, Blackstock, SC, Cheung, LK and Loo, TL. Analysis for nitrosourea antitumor agents by gas chromatography - mass spectrometry. *Anal. Chemistry* 1981; 53: 1205-1208.
9. Banerjee, SP, Sharma, VK, Kung-Cheung, LS, et.al. Cocaine and D-Amphetamine induce changes in central beta-adrenoceptor sensitivity: effects of acute and chronic drug treatment. *Brain Research* 1979; 175:119-130.
10. Evans, I, Kung (Cheung), LS, Bozmann, HB and Banerjee, SP. Bromodeoxyuridine treatment of melanoma cells decrease rubidium treatment. *Cell Biol. Int. Rep* 1978; 2(2): 195-198.
11. Banerjee, SP, Sharma, VK, Kung (Cheung), LS and Chanda, SK. Amphetamine induces beta-adrenergic receptor supersensitivity. *Nature* 1978; 271: 380-381.
12. Banerjee, SP, Kung (Cheung), LS, Riggi, SJ and Chanda, SK. Development of beta-adrenergic receptor subsensitivity by antidepressants. *Nature* 1977; 268: 455-456.
13. Banerjee, SP, Sharma VK and Kung (Cheung), LS. Beta-adrenergic receptors in innervated and denervated skeletal muscle. *Biochem Biophys Acta* 1977; 470: 123-127.
14. Banerjee, SP and Kung (Cheung), LS. Beta-adrenergic receptors in rat heart: effects of thyroidectomy. *Eur. J. Pharmacol* 1977; 43: 207-208.

### **INVITED PRESENTATIONS**

1. Cheung LK: Pharmacokinetic and Pharmacodynamic Studies of Metformin with gastric bypass surgery. RTRN Obesity and Metabolic Syndrome Cluster Webinar. July 25<sup>th</sup>, 2014.

### **PRESENTATIONS**

1. El-Zailik A, Cheung LK, Wang Y, Sherman V, Chow DS. Development and validation of LC-MS/MS assay for simultaneous analysis of simvastatin, atorvastatin, rosuvastatin

- and their active metabolites in plasma of obese subjects underwent bariatric surgery. To be presented at in the AAPS annual meeting in Washington, DC, Nov. 5-7, 2018.
2. El-Zailik A, Cheung LK, Wang Y, Sherman V, Chow DS. Impacts of gastric bypass surgery on the pharmacokinetics of simvastatin, atorvastatin, rosuvastatin, and their active metabolites. Presented at American College of Clinical Pharmacology (ACCP) annual meeting in Bethesda, MD, Sept. 23-25, 2018
  3. El-Zailik A, Cheung LK, Sherman V, Chow DS, Population Pharmacokinetic Modeling of Metformin in Patients Undergoing Gastric Bypass Surgery. Presented in the 46<sup>th</sup> Annual Meeting of ACCP, San Diego, CA, September 17-19, 2017.
  4. El-Zailik A, Cheung LK, Sherman V, Chow DS. Impacts of gastric bypass surgery on the pharmacokinetics and pharmacodynamics of simvastatin, atorvastatin, and rosuvastatin. Ameri. College Clin. Pharmcol. (ACCP) Annual Meeting, Sept. 25-27, 2016, Washington DC.
  5. El-Zailik A, Cheung LK, Sherman V, Chow DS. Metformin pharmacokinetics and pharmacodynamics before and after gastric bypass surgery. Amer. Assoc. Pharmaceutical Scientists (AAPS) Annual Meeting, Nov. 13-17, 2016, Colorado, Denver.
  4. El-Zailik A, Cheung LK, Sherman V, Chow DS. Effect of gastric bypass surgery on pharmacokinetics and pharmacodynamics of simvastatin. Amer. Assoc. Pharm. Sci (AAPS) Annual Meeting, October 25-29, 2015, Orlando, FL.
  5. Cheung LK, El-Zailik A, Chow DS, Sherman V. Outcomes of metformin use with gastric bypass surgery. International Symposium on Minority Health and Health Disparities (ISMHHD) Annual meeting, December 1-3, 2014, Washington DC.
  6. El-Zailik A, Hsiao C-H, Chow DS, Cheung LK, Sherman V. Effect of undergoing gastric bypass surgery on pharmacokinetics and pharmacodynamics of metformin. Amer. Assoc. Pharm. Sci. (AAPS) Annual Meeting, Nov. 2-5, 2014, San Diego, CA
  6. Hsiao S, Lee CW, Cheung LK, Sherman V, Chow DS. Pharmacokinetics variations of metformin used in patients undergoing gastric bypass surgery. Amer. Assoc. Pharm. Sci. (AAPS) Annual Meeting, Nov. 2013, San Antonio, TX
  7. Cheung, LK, Grasso, LA and Demers, RF. Decentralization of the pharmacokinetics service. The 57<sup>th</sup> American Society of Health-System Pharmacists (ASHP) Annual Meeting, June 2000.
  8. Cheung, LK and Demers, RF. Pharmacist career ladder. The 56<sup>th</sup> ASHP Annual Meeting, June 1999.
  9. Fung, FK and Cheung, LK. Is a serum drug concentration necessary for once-daily aminoglycoside dosing? The 31st ASHP Mid-Year Clinical Meeting, December 1996.
  10. Cheung, LK, Demers, RF, Ennis, SL, Miller, MA and Gibson, GA. Outcome of the implementation of guidelines for cost-effective use of intravenous calcium antagonists. The 53rd ASHP Annual Meeting, June 1996.
  11. Demers, RF, Cheung, LK, Erush, SC, Laskin, MS and Miranda, PA. Improved pharmacist interventions through a decentralized pharmacist service. The 52nd ASHP Annual Meeting, June 1995.
  12. Cheung, LK, Demers, RF, Erush, SC, Laskin, MS and Miranda, PA. Pharmacists' interventions as an indicator for drug use improvement. The 29th ASHP Mid-Year Clinical Meeting, December 1994.
  13. Piccolo, ML and Cheung, LK. Aminoglycoside pharmacokinetics in very-low-birth-weight premature infants. The 27<sup>th</sup> ASHP Mid-Year Clinical Meeting, December 1992.
  14. Hunter, WJ and Cheung, LK. Aminoglycoside pharmacokinetics in oncology patients. The 27th ASHP Mid-Year Clinical Meeting, December 1992.

15. Cheung, LK, Gibson, GA and Bourret, JA. Outcome-oriented quality assurance program for the clinical pharmacokinetic monitoring service. The 49th ASHP Annual Meeting, June 1992.
16. Mathias S. and Cheung, LK. Frequency of adverse drug reaction in the non-institutionalized elderly. The 24th ASHP Mid-Year Clinical Meeting, December 1989.
17. Okpara, AU, Van Duyn, OM, Cate, TR and Cheung, LK. Concurrent Ceftazidime use and evaluation study with clinical pharmacy intervention. The 24th ASHP Mid-Year Clinical Meeting, December 1989.
18. Cheung, LK and Van Duyn, OM. Community prescription use and cost in elderly. The Scientific Meeting sponsored by South Texas Geriatric Education Center, September 1988.
19. Cheung, LK, Abobo, CV and Galley, MA. Human (rDNA) insulin allergy in a type II diabetic patient with resistance to oral hypoglycemic agents. The 23rd ASHP Mid-Year Clinical Meeting, December 1988.
20. Cheung, LK, Van Duyn, OM, Bates, TR and Hayes, BM. Community prescription use and cost in minority elderly. The 41st Annual Scientific Meeting of the Gerontological Society of America, November 1988.

### **INVITED LECTURES**

1. Phenytoin: Non-Linear Pharmacokinetics and Monitoring Strategies. Hospital of the University of Pennsylvania, 2004.
2. Warfarin Reversal – the Chest Guidelines. Hospital of the University of Pennsylvania, 2002.
3. Clinically Significant Drug-Food Interactions and How to Manage Them. Hospital of the University of Pennsylvania, 2002.
4. Cost-Effective Use of Volume Expanders – University HealthSystem Consortium (UHC) Guidelines. Hospital of the University of Pennsylvania, 2002.
5. Changes in Pharmacy Practice: Opportunities and Challenges. Clinical Pharmacy Symposium at National Taiwan University, Taipei, Taiwan, 2000.
6. Pharmacokinetic Monitoring for Patients on Dialysis – Focus on Aminoglycosides and Vancomycin. Hospital of the University of Pennsylvania, 1996.
7. Critical Pathway for Asthma Treatment. Hospital of the University of Pennsylvania, 1995.
8. Weight-based Heparin Dosing Nomogram and Monitoring. Hospital of the University of Pennsylvania, 1995.
9. Pharmacokinetic Monitoring in the Neonates. Physician Education Program at the Hospital of the University of Pennsylvania, 1994.
10. Once-Daily Aminoglycoside Dosing Strategy. National Taiwan University School of Pharmacy 40<sup>th</sup> Anniversary symposium, Taipei, Taiwan, 1993.

### **ADVISED STUDENT POSTER PRESENTATIONS**

1. Gilles MH, Cheung LK, and Bates TR. Pharmacokinetic monitoring service at healthcare institutions in the US: A survey. Presented at the 46<sup>th</sup> Amer. Soc. Health-system Pharm (ASHP) Mid-Year meeting in 2010, Anaheim CA.

2. Ho T, Patel D, Cheung LK. Effects of alteplase on international normalized ratio (INR) and activated partial thromboplastin time (aPTT). Presented at the 47<sup>th</sup> Amer. Soc. Health-system Pharmacists (ASHP) Mid-Year meeting in 2011, New Orleans LA.
3. Ross MA, Nguyen LT, Cheung LK. Demographic information and medication uses in morbidly obese patients undergoing bariatric surgery. Presented at the 47<sup>th</sup> Amer. Soc. Health-system Pharmacists (ASHP) Mid-Year meeting in 2011, New Orleans LA.
4. Omorebokhae J, Vu J, Cheung LK. Pharmacokinetic studies of selected medications before and after gastric bypass surgery. Presented at the 48<sup>th</sup> Amer. Soc. Health-system Pharmacists (ASHP) Mid-Year meeting in 2012, Las Vegas, NV.
5. Vo T, Radwan M, Cheung LK. Antidepressant uses in Roux-en-Y gastric bypass surgery patients. Presented at the 49<sup>th</sup> Amer. Soc. Health-system Pharmacists (ASHP) Mid-year Clinical Meeting in December 2013, Orlando, FL.
6. Pham PJ, Lee V, Do P, Lal LS, Cheung LK. Effects of preoperative weight change in the outcomes of laparoscopic sleeve gastrectomy. Presented at the 50<sup>th</sup> Amer. Soc. Health-system Pharmacists (ASHP) Mid-year Clinical Meeting in December 2014, Anaheim, CA.
7. Lee V, Pham PJ, Wang H, Sherman V, Cheung LK. Patient characteristics and medication use patterns in a laparoscopic sleeve gastrectomy patient population. Presented at the 50<sup>th</sup> Amer. Soc. Health-system Pharmacists (ASHP) Mid-year Clinical Meeting in December 2014, Anaheim, CA.
8. Do M, Wong F, Sherman V, Cheung LK. Impact of post-operative follow-up visits on weight loss in Roux-en-Y gastric bypass surgery patients. Presented at the 51<sup>th</sup> Amer. Soc. Health-system Pharmacists (ASHP) Mid-year Clinical Meeting in December 6-10, 2015, New Orleans, LA.
9. Benny B, Tieu H, Thomas J, Sherman V, Cheung LK. Ethnic difference in glucose control and weight loss after gastric bypass surgery in a diabetic population. Presented at the 52<sup>nd</sup> Amer. Soc. Health-system Pharmacists (ASHP) Mid-year Clinical Meeting in December 4-8, 2016, Las Vegas, NV.

# PORTIA NICOLE DAVIS, PHARM.D.

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## CURRICULUM VITAE

### CURRENT POSITION

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*November 2011 – Present*

#### **Associate Professor of Pharmacy Practice**

Texas Southern University College of Pharmacy & Health Sciences; *Houston, Texas*

- Course coordinator for Medication Therapy Management Certification and Endocrine Disorders Pharmacotherapeutics Courses
- Lecture activities in respiratory pharmacotherapy, communications, pharmacy outcomes, and pharmacy practice courses
- Integrated Skills Lab Facilitator
- Participation in College committees including:
  - Admissions, *2011 – 2014*
  - Curriculum, *2011 – present*
    - Pharmacy Practice and Clinical Health Sciences Department Subcommittee Chair, *2018 – present*
    - PharmD Program Subcommittee Co-Chair, *2018 – present*
  - Interprofessional Education, *2012 – present*
    - Chair, *2012 – 2014*
- Core member of the College Interprofessional Education Collaboration (IPEC) Initiative task force
  - Attended the Fall 2012 IPEC Institute training; *Atlanta, Georgia*
- Texas Southern University College of Pharmacy & Health Sciences Community Pharmacy Residency Program
  - Program Coordinator, *2015 - present*
  - Advisory Team Member, *2012 – present*

#### **Disease State Management Clinical Pharmacist**

San José Clinic; *Houston, Texas*

- Provide advanced disease state management for chronic conditions per physician collaborative agreement for clinic patient visits as part of an interdisciplinary health care team
  - Provide diabetic patient education and pharmacotherapy management
  - Anticoagulation management
  - Administer immunizations to patients as needed
- Pharmacy Sub-Committee Member, *2012 – present*

#### **Clinical Preceptor**

Texas Southern University College of Pharmacy; *Houston, Texas*

- Community Pharmacy Residency Program
- Advanced Pharmacy Practice Experience Students
- Introductory Pharmacy Practice Experience Students

## POST-GRADUATE TRAINING

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*July 2009 – June 2010*

### **Drug Information Residency, PGY1**

Texas Southern University College of Pharmacy & Health Sciences; *Houston Texas*

Program Directors: Uche Anadu Ndefo, Pharm.D., BCPS and Angie Eaton, Pharm.D.

## EDUCATION

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*August 2005 – May 2009*

### **Texas Southern University**

*Houston, Texas*

Doctor of Pharmacy, *cum laude*

*June 2001-December 2002*

### **Xavier University of Louisiana**

New Orleans, Louisiana

## RELATED PROFESSIONAL EXPERIENCE

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*September 2014-September 2016*

### **Pharmacist Consultant**

Agency for Healthcare Research and Quality Health Care Innovations Exchange Learning Community on Medication Therapy Management for At-Risk Populations. Department of Health and Human Services/Westat, Inc.

*September 2010-June 2011*

### **Visiting Adjunct Professor, Department of Pharmacy Practice**

Texas Southern University College of Pharmacy & Health Sciences, *Houston, Texas*

*July 2009-2018*

### **Relief Pharmacist**

CVS/Pharmacy; *Houston, Texas*

*June 2006-July 2009*

### **Pharmacist Intern**

CVS/Pharmacy; *Houston, Texas*

*March 2003-May 2006*

### **Certified Pharmacy Technician**

Eckerd Drugs; Dallas Texas

CVS/Pharmacy; *Houston, Texas*

**POSTER PRESENTATIONS**

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- Okunbor J, Acevedo J, **Davis PN**, Ebeid A, Addo C, Onyiego SD, Bunyun H. Evaluating the clinical outcomes of a health system – community clinic partnership in the management of CHF patients. Poster presentation to the 52<sup>nd</sup> Annual American Society of Health-System Pharmacists Midyear Clinical Meeting. Orlando, Florida, December 2017.
- Ndefo UA, Kazeem AO, **Davis PN**. Pediatric African-American children with uncontrolled asthma. Poster presentation to the RCMI Translational Science 2017 Conference. Washington D.C., October 2017.
- Guerra B, Paz S, **Davis PN**. Initiation and optimization of drug therapy in patients with dyslipidemia at a local charity clinic. Poster presentation to the 51<sup>st</sup> Annual American Society of Health-System Pharmacists Midyear Clinical Meeting. Las Vegas, Nevada, December 2016.
- Patel H, Fernandez JG, Velasquez KL, **Davis PN**, Spurlock S. Retained symptomatic control following discontinuation of proton pump inhibitors after extended use: a pharmacist-led medication use evaluation. Poster presentation to the 50<sup>th</sup> Annual American Society of Health-System Pharmacists Midyear Clinical Meeting. New Orleans, Louisiana, December 2015.
- Bailey J, **Davis PN**. Health and economic benefits of pneumococcal vaccines in patients with diabetes: A meta-analysis. Poster presentation to the 50<sup>th</sup> Annual American Society of Health-System Pharmacists Midyear Clinical Meeting. New Orleans, Louisiana, December 2015.
- Gamwell AL, **Davis PN**, Le LM, Nguyen TN. Impact of a disease state management program on A1c reduction in an underserved population with type II diabetes mellitus over 18 months. Poster presentation to the 49<sup>th</sup> Annual American Society of Health-System Pharmacists Midyear Clinical Meeting, Anaheim, California, December 2014.
- Russell JW, **Davis PN**, Spurlock S. Retained symptomatic control following discontinuation of proton pump inhibitors after extended use: a pharmacist-led medication use evaluation. Poster presentation to the 48<sup>th</sup> Annual American Society of Health-System Pharmacists Midyear Clinical Meeting, Orlando, Florida, December 2013.
- Gamwell A, **Davis PN**. Safety evaluation of clopidogrel use in a clinic pharmacy. Poster presentation to the 48<sup>th</sup> Annual American Society of Health-System Pharmacist Midyear Clinical Meeting, Orlando, Florida, December 2013.
- Kuo V, **Davis PN**. Lipid control in Hispanic patients receiving full-dose simvastatin

following pharmacist intervention in a non-profit community health clinic. Poster presentation to the 47<sup>th</sup> Annual American Society of Health-System Pharmacists Midyear Clinical Meeting, Las Vegas, Nevada, December 2012.

Varughese J, **Davis PN**. Evaluating increased glucose levels in Hispanic patients in relation to simvastatin therapy at San José Clinic. Poster presentation to the 47<sup>th</sup> Annual American Society of Health-System Pharmacists Midyear Clinical Meeting, Las Vegas, Nevada, December 2012.

Russell J, **Davis PN**. Glycemic control in diabetic patients involved in a pharmacist-led disease state management program at a non-profit community health clinic. Poster presentation to the 47<sup>th</sup> Annual American Society of Health-System Pharmacists Midyear Clinical Meeting, Las Vegas, Nevada, December 2012.

Aniemeke EU, **Davis PN**. Evaluation of comprehensive provision of care and pharmacist-guided intervention among subjects with diabetes mellitus at a local non-profit community health clinic. Poster presentation to the 47<sup>th</sup> Annual American Society of Health-System Pharmacists Midyear Clinical Meeting, Las Vegas, Nevada, December 2012.

Pham NT, **Davis PN**. Assessment of medication errors within a local behavioral health center: A focus on patient safety. Poster presentation to the 47<sup>th</sup> Annual American Society of Health-System Pharmacists Midyear Clinical Meeting, Las Vegas, Nevada, December 2012.

Kesse RJ, **Davis PN**. Assessing the need for continued pharmacist interventions to increase compliance with the Joint Commission medication management standards in a community behavioral health center. Poster presentation to the 47<sup>th</sup> Annual American Society of Health-System Pharmacists Midyear Clinical Meeting, Las Vegas, Nevada, December 2012.

Ndefo UA, **Davis PN**, Alaswad R. Over-the-Counter (OTC) cough and cold products use in children and infants under the age of 4. Texas Southern University. Poster presentation to the students, faculty, and staff participants of annual University Research Week. Houston, Texas, March 2012.

Kifle T, **Davis PN**. Pharmacy Residency: A survey of 3<sup>rd</sup> and 4<sup>th</sup> professional year students. Texas Southern University. Poster presentation to the students, faculty, and staff participants of annual University Research Week. Houston, Texas, March 2012.

**Davis PN**, Williams K. Retained blood pressure control after therapeutic automatic substitution from nisoldipine to amlodipine in a major county hospital district. Poster presentation to the 44<sup>th</sup> Annual American Society of Health-System Pharmacists Midyear Clinical Meeting, Las Vegas, Nevada, December 2009.

## INVITED LECTURES/ORAL PRESENTATIONS

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Integrating the Pharmacist in to the Interdisciplinary MTM Team: An Added Value in Achieving Improved Medication Access, Adherence, Management, and Outcomes – Collaborative Problem Solving. AHRQ Healthcare Innovations Exchange Medication Therapy Management Learning Community In-Person Meeting. Houston, Texas, September 2015.

The Pharmacist's Role in Emergency Preparedness: A Focus on Medication Safety and Drug Disposal. (*ACPE Program Number: UAN 0065-9999-15-019-L04-P*). Texas Southern University College of Pharmacy & Health Sciences, Office of Continuing Education-Bioterrorism: The One Step Approach Continuing Education for Pharmacists. Houston, Texas, May 2015.

The Pharmacist's Role in Emergency Preparedness: A Focus on Medication Safety and Drug Disposal. (*ACPE Program Number: 00065-9999-14-010-L04-P*). Texas Southern University College of Pharmacy & Health Sciences, Office of Continuing Education-Bioterrorism: The One Step Approach Continuing Education for Pharmacists. Houston, Texas, June 2014.

Community Pharmacists' Role in Disaster Preparedness (*ACPE Program Number: 0065-9999-13-004-L04-P*). Texas Southern University College of Pharmacy & Health Sciences Office of Continuing Pharmacy Education-Bioterrorism: The One Step Approach Continuing Education for Pharmacists. Houston, Texas; April, May, and June 2013.

Obstetrical Practitioner Acceptability of Metformin for the Treatment of Gestational Diabetes Mellitus. Texas Society of Health-Systems Pharmacists Annual Seminar and Alcaldé XXIV Conference, Galveston Texas, April 2010.

Drug Information Resources: Keeping Current with Medical Literature (*ACPE Program Number: 0065-0000-10-001-L04-P*). Texas Southern University College of Pharmacy & Health Sciences Office of Continuing Pharmacy Education Annual Fall Preceptor Conference, Houston, Texas, March 2010.

The Trial to Assess Improvement in Therapeutic Outcomes by Optimizing Platelet Inhibition with Prasugrel-Thrombolysis in Myocardial Infarction. Pharmacy & Therapeutics committee presentation to the Harris County Hospital District, Houston, Texas, October 2009.

## COMPLETED AND ONGOING GRANTS, PROJECTS AND RESEARCH

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Uncontrolled Asthma Among Pediatric African Americans.

Funded by: Centers for Medicaid & Medicare Services: \$215,000, October 1, 2015 – September 30, 2017.

**Role: Co-Principal Investigator**

PI: Uche Anadu Ndefo, PharmD, BCPS

Agency for Healthcare Research and Quality Health Care Innovations Exchange  
Learning Community on Medication Therapy Management for At-Risk  
Populations. Department of Health and Human Services/Westat, Inc.

Goal: Bring together representatives from various federally qualified health care centers to learn more about how to implement medication adherence strategies and integrate pharmacists into interprofessional care teams, and how to assess and measure improvements resulting from the intervention.

Contract awarded by: Westat, Inc:

**Role: Consultant/Learning Community Co-Champion**

Colleagues: Uche Anadu Ndefo, PharmD, BCPS, Aisha Morris Moultry, PharmD, MS  
August 2014 – September 2016.

Glycemic Control in Diabetic Patients Involved in Pharmacist-led Disease State  
Management Program at a Non-profit Community Health Clinic. San José Clinic,  
Houston, Texas. March 2014

Evaluating Increased Glucose Levels in Hispanic Patients in Relation to Simvastatin  
Therapy at San José Clinic. San José Clinic, Houston, Texas. December 2013.

Evaluation of Comprehensive Provision of Care and Pharmacist-Guided Intervention  
Among Patients with Diabetes Mellitus at a Local Non-Profit Community Health  
Clinic. San José Clinic, Houston, Texas. December 2013.

Obstetrical Practitioner Acceptability of Metformin for the Treatment of Gestational  
Diabetes Mellitus. Texas Southern University College of Pharmacy & Health  
Sciences. April 2010.

Coverage of Medically Necessary Vitamins and Minerals for Pediatric Medicaid Clients (Birth  
through 20 years of Age). Texas Southern University College of Pharmacy & Health  
Sciences. July 2009

## PUBLICATIONS

**Davis PN**, Guerra B, Ash A. Pediatric asthma: An update for pharmacists. *Drug Topics*. 2018; (1)1-5.

Anadu UN, Moultry AM, **Davis PN**, et al. Provision of medication therapy management by pharmacists to patients with type-2 diabetes mellitus in a federally qualified health center. *Pharmacy & Therapeutics*. 2017; 42(10):632-37.

**Davis PN**, Ndefo UA, Oliver A. Dapagliflozin: a sodium glucose cotransporter 2 inhibitor for the treatment of diabetes mellitus. *Journal of Pharmacy Practice*, 2015; 1-7. doi: 10.1177/0897190014566308.

**Davis PN**, Ndefo UA, Oliver A, et al. Albiglutide: A once-weekly glucagon-like peptide-1 receptor agonist for the management of type 2 diabetes. *AJHP*. 2015; 72:1097-1103.

Ebeid AM, **Davis P**, Olaleye O, et al. The TB/HIV Syndemic Prevention, Detection, and Treatment. *US Pharm*. 2013: 59-68.

Eaton AT, **Davis PN**, Anadu UN, et al. Update on Pharmacotherapeutic Options for Rheumatoid Arthritis. *US Pharm*. 2013; 38(10):44-48.

## PROFESSIONAL MEMBERSHIPS AND INVOLVEMENT

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Interprofessional Education Collaborative (IPEC®)

Conference participant, Atlanta, GA, October 2012

American Association of Colleges of Pharmacy, *2011-present*

- TSU-COPHS Faculty Delegate, *2014 – 2016*
- Minority Faculty Special Interest Group, *2015 – present*
  - Secretary/Treasurer, *2016 – 2018*
  - Scholarship committee member, *2015 – present*
  - Mentoring program advisee, *2015 – present*

American Pharmacists Association, *2006 – 2012*

Association of Black Health-Systems Pharmacists, *2010 – 2013*

The American Society of Health-System Pharmacists, *2008-2011*

## CERTIFICATIONS AND LICENSURES

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Registered Pharmacist

Texas State Board of Pharmacy 47609, *July 2009 – present*

Pharmacist Preceptor

Texas State Board of Pharmacy, *March 2010 – present*

CPR for Healthcare Provider

American Heart Association, *May 2007 – present*

Immunization Certification

American Pharmacists Association, *July 2010 – present*

Sterile Products (IV) Certification

Texas Society of Health-Systems Pharmacists, *March 2007 – present*  
ACPE number 156-999-06-098-H0

TeamSTEPPS® Master Trainer  
 Agency for Healthcare Research and Quality, *April 2013-present*

## INTERESTS, AWARDS, AND OTHER ACTIVITIES

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TSU COPHS Interprofessional Education Faculty Champion – 2017

TSU Student National Pharmaceutical Association Faculty Appreciation Award - 2015

Rho Chi Pharmacy Honor Society, Gamma Delta Chapter, *May 2008 – present*

- President, 2008-2009

Lambda Kappa Sigma International Professional Pharmacy Fraternity, Alpha Sigma Chapter, *April 2006 – present*

- Faculty Advisor, 2012 – present
- Fraternity Advisor, 2009 – 2011
- President, 2007-2008
- President-Elect, 2006-2007
- Membership Coordinator, 2006-2007

Fifth Ward Church of Christ Youth Ministry, Houston, TX, 2014 – present

- Core team member
- Youth girls mentor

Fort Bend Independent School District-Volunteers in Public Schools (VIPS), *August 2012 – present*

Corporation for National & Community Service

- President's Volunteer Service Award – Silver
  - 2014, 2015, 2016, 2017, 2018

San José Clinic Volunteer of the Month

- April 2014

San José Clinic Volunteer Service Award

- February 2013

## References

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Available upon request

**Brian Dupré, Ph.D.**

2421 Swift Boulevard  
Houston, Texas 77030  
(713) 667-1528 (H)  
e-mail: bdupre53@yahoo.com

PROFESSIONAL EXPERIENCE / ACCOMPLISHMENTS:

June 2009 to present: **Visiting Assistant Professor, Texas Southern University**, College of Pharmacy and Health Sciences, Houston, Texas. Teach medicinal chemistry, advanced biochemistry and pharmaceutical chemistry.

August 2007 to June 2012: **Weiss Instructor of Chemistry, Rice University**, Houston, Texas. Teach sophomore organic chemistry, special topics classes in organic chemistry, medicinal chemistry and drug design. Organize and teach organic laboratory courses.

May 1999 – August 2007: **Principal Scientist, Medicinal Chemistry, Texas Biotechnology Corporation, Houston, Texas (Company re-named Encysive Pharmaceuticals May 2003)**.

- Manage various laboratory workers for the design and synthesis of novel inhibitors of G-protein coupled receptors and cell adhesion molecules (January 2003 to June 2007). Apply prodrug and absorption-enhancing technologies for improved pharmacokinetics on selected compounds.
- Group leader for NF- $\kappa$ B project (October 2001 to January 2003). Design and manage synthesis of inhibitors of NF- $\kappa$ B for anti-inflammatory applications. Utilize parallel synthesis techniques for rapid synthesis of test compounds. Manage three laboratory workers.
- Synthesize analogs of library hits for lead optimization in Caspase program (August 2000 to October 2001)
- Design and synthesize novel protein inhibitors for VLA-4 program (May 1999 to August 2000): Collaborate with Schering Plough for development of lead compound.
- **Laboratory Safety Liaison** (May 1999 to August 2007). Assure OSHA compliance for laboratory operations. Conduct weekly lab inspections and report to director of Laboratory Safety. Establish protocols and standards for lab safety.
- **Adjunct Assistant Professor**, Department of Internal Medicine, University of Texas Health Science Center (September 1992 to June 2007).

April 1998 – May 1999: **Senior Clinical Scientist, Texas Biotechnology Corporation**.

- **Project Team Director**, Novastan<sup>®</sup> (argatroban, direct thrombin inhibitor for prevention of heparin-induced thrombocytopenia). Coordinate and oversee activities related to New Drug Application submission to the FDA, including contract negotiations and CRO management. Received FDA approval June 30, 2000.
- Manage protocol design, data analysis and reporting/publishing and provided scientific expertise for the clinical development programs and regulatory submissions for candidate drugs.
- Coordinate and manage activities of approximately 80 individuals in various Contract Research Organizations for assembly of New Drug Application for submission to the FDA.

September 1992 - April 1998: **Senior Scientist II, Chemistry and Biophysics, Texas Biotechnology Corporation, Houston, Texas**.

- Responsible for the independent design, synthesis and characterization of novel anti-inflammatory drugs, and cell adhesion inhibitors. Utilize computational chemistry for design of lead compound (TBC1269), currently in development for asthma, now partnered with Revotar Pharmaceuticals AG (Germany) for clinical development.
- Establish OSHA compliance program and hazardous materials disposal procedures.

March 1987 to September 1992: **Senior Scientist, Medicinal Chemistry, Alcon Laboratories, Ft. Worth Texas**.

- Synthesize and characterize novel anti-glaucoma agents. Lead discovery now on market as Azopt<sup>®</sup> (brinzolamide, a carbonic anhydrase inhibitor).
- Discover a novel heterocyclic ring system (5*H*-Thieno[2,3-*e*]-4,1,2-oxathiazepine).

- Discover new chemistry for construction of  $\alpha$ -alkoxy esters.
- Serve as **Project Team Leader** for the DA<sub>2</sub> agonist project. Coordinate and oversee activities related to drug-design, synthesis, formulation, drug-delivery, toxicology and pharmacology.

April 1985 to March 1987: **Post-Doctoral associate** with Dr. Albert I. Meyers, **Colorado State University, Ft. Collins, Colorado.**

- Conduct investigations of the synthesis of chiral pyrrolidines.
- Total synthesis of the antibiotic (+)-Anisomycin *via* asymmetric induction.
- Develop an improved method for the synthesis of substituted dihydropyrroles.

January 1986 to May 1986: **Adjunct Assistant Professor, University of Colorado, Boulder, Colorado.**

- Teach two sections of sophomore organic chemistry in conjunction with post-doctoral studies.

July 1980 to August 1981: **Teaching Assistant, The University of Texas at Austin.**

- Supervise laboratory activities for sophomore organic chemistry.

October 1978 to May 1980: **Analytical Geochemist, Bureau of Economic Geology, The University of Texas, Austin.**

- Develop an improved fluorometric assay for determination of trace uranium in rock, soil and water samples (part of NURE project).
- Use wet-chemical methods and atomic absorption / atomic emission spectroscopy for analysis of trace elements in geologic samples.

June 1972 to August 1975: **Sergeant, United States Air Force.**

- Communications equipment repairman responsible for installation, operation and maintenance of radio communications equipment.
- Received training in solid-state devices and digital techniques.
- Honorably discharged to reserves (DD Form 214 available upon request).

#### EDUCATION:

1985 - Ph. D. Organic Chemistry, The University of Texas at Austin. Research Advisor: Prof. Stephen F. Martin.

- Conduct model studies related to the regiocontrol of [3+2] cycloadditions of nitrile oxides to unactivated olefins.
- Total synthesis of (+)-Phyllanthocin using asymmetric Diels-Alder chemistry and a directed [3+2] cycloaddition.

1977 - Bachelor of Arts, The University of Texas at Austin. Major: Chemistry; Minor: Mathematics and Computer Science. Undergraduate research with Prof. James K. Whitesell: Total Synthesis of Natural Products.

#### CONTINUING EDUCATION COURSES:

- "Active Learning and the Pedagogical Change" (May 24-26, 2010) American Association of Colleges of Pharmacy Conference, Lansdowne, VA.
- "Introduction to Cell Biology" (June 2008) Rice University short course.
- "Medical Devices 101" (July 2007) BioHouston Consortium, Houston, Texas.
- "Selected Topics in Pharmacokinetics and Toxicokinetics" (April 2006) Encysive Pharmaceuticals, Inc., Houston, Texas.
- "Organic Chemistry of Drug Design and Drug Action" (August 1999), ACS short course, Boston, Massachusetts.
- "Management Problems of the Technical Person in a Leadership Role" (January 1997), Houston, Texas.
- "Laboratory Safety" (September 1992), Galveston, Texas.
- "Human Virology" (October 1990), Alcon Laboratories, Ft. Worth, Texas.
- "Effective Supervision of Scientists and the Technical Staff" (April 1990), ACS short course, Boston, Massachusetts.
- "Residential School on Medicinal Chemistry" (June 1988), Drew University, Madison, New Jersey.

#### AWARDS AND PROFESSIONAL SOCIETIES:

Texas Biotechnology President's Award for FDA approval of argatroban: July 2000  
National Science Foundation Post-Doctoral Research Associate: April 1985 - March 1987  
National Institutes of Health Research Assistant: August 1981 - April 1985  
Robert A. Welch Fellowship recipient: July 1980 - August 1981  
Member American Chemical Society, Organic and Medicinal Chemistry Divisions (1976 – present)

#### OTHER TECHNICAL SKILLS:

Experienced in advanced methods of analysis of organic compounds (NMR, FTIR, normal and reversed-phase HPLC, GC, etc.), ISIS and REACCS chemical information systems, Tripos PC-driven molecular modeling program "Alchemy" and "Leapfrog" *de novo* drug design system, CAChe Molecular Modeling System, skilled in troubleshooting and repair of electronic and mechanical devices, SCUBA certified.

#### PUBLICATIONS / PATENTS / PRESENTATIONS:

Dupré, B., "A Study Guide to Essential Organic and Medicinal Chemistry", Copyright **2013**, registration number TXu 1-878-406.

Anderson, E., Biediger, R. J., Chen, J., Dupré, B., Lory, P., Market, R. V., Monk, K. A., Savage, M. M., Tennyson, R., Young, B. "Modulators of CCR9 Receptor and Methods of Use Thereof", May 15, **2012**, patent number US 8,178,699.

Anderson, E., Dupre, B., Gao, D., Kessler, R.J., Li, W., Wu, C. "Pyridine, Pyrimidine, Quinoline, Quinazoline and Naphthalene Urotensin-II Receptor Antagonists" January 22, **2008**, patent number US 7,320,989.

Anderson, E., Cohn, S., Dupre, B., Market, R.M., Monk, K., Tennyson, R., Young, B. "Diaryl Sulfonamides that Inhibit CCR-9 Activity", U.S. Patent applied for June **2007**.

Wu, C., Anderson, E., Bui, H., Dupré, B., Gao, D., Holland, G., Kassir, J., Li, W., Wang, J. "Pyridine, Pyrimidine, Quinoline and Quinazoline Urotensin-II Receptor Antagonists" September 4, **2007**, patent number US 7,265122

May, J. A., Namil, A., Chen, H.-H., Dantanarayana, A. P., Dupre, B., Liao, J. C. "Quaternary Ammonium Substituted Thieno[3,2-e]-1,2-thiazine-6-sulfonamide-1,1-dioxides: Potential Membrane-Impermeable Inhibitors of Carbonic Anhydrase" *Biorg. Med. Chem. Lett.* **2006**, 14, 2052.

Langer, R., Wang, M., Stepkowski, S. M., Hancock, W. W., Han, Rongxiang, H., Li, P., Feng, L., Kirken, R. A., Berens, K. L., Dupre, B., Podder, H., Dixon, R.A.F., Kahan, B. D. "Selectin Inhibitor Bimosiamose Prolongs Survival of Kidney Allografts by Reduction of Intragraft Production of Cytokines and Chemokines." *J. Am. Soc. Nephrol.* **2004**, 15, 2893.

Biediger, R. J., Dupre, B., Hamaker, L. K., Holland, G. W., Kassir, J. M., Li, W., Market, R. V., Nguyen, N., Wu, C. "Propanoic Acid Derivatives that Inhibit the Binding of Integrins to their Receptors," April 20, **2004**, patent number US 6,723,711.

Berens, K.L., Vanderslice, P., Dupré, B., Dixon, R.A.F.D. "Selectin Antagonists – Therapeutics for Airway Inflammation" *New Drugs for Asthma, Allergy and COPD* **2001**, 31, 306-309, Hansel, T.T. and Barnes, P.J. (eds.).

Berens, K. B., Dixon, R. A. F., Dupré, B. "Use of Selectin Antagonists in Organ Preservation Solutions" Provisional patent filed 22 December **2000** (#TEX4542P0460US), abandoned March 18, 2004.

Davenpeck, K. L., Berens, K. L., Dixon, R. A. F. D., Dupré, B., Bochner, B. S. "Inhibition of Adhesion of Human Neutrophils and Eosinophils to P-Selectin by the Sialyl Lewis X Antagonist TBC1269: Preferential Activity Against Neutrophil Adhesion *in vitro*." *J. Allergy Clin. Immunol.* **2000**, *105*, 769.

Wu, C., Decker, E. R., Blok, N., Bui, H., Chen, Q., Raju, B., Bourgoyne, A. R., Knowles, V., Biediger, R. J., Market, R. V., Lin, S., Dupré, B., Kogan, T. P., Holland, G. W., Brock, T. A., Dixon, R. A. F. D. "Endothelin Antagonists: Substituted Mesitylcarboxamides with High Potency and Selectivity for ET<sub>A</sub> Receptors." *J. Med. Chem.* **1999**, *42*, 4485.

Abraham, W. M., Ahmed, A., Sabater, J. R., Lauredo, I. T., Botvinnikova, Y., Bjercke, R. J., Hu, X., Revelle, B. M., Kogan, T. P., Dupré, B., Dixon, R. A. F., Yeh, E. T. H., Beck, P. J. "Selectin Blockade Prevents Antigen-Induced Late Bronchial Responses and Airway Hyperresponsiveness in Allergic Sheep." *Am. J. Respir. Crit. Care Med.* **1999**, *159*, 1205.

Kogan, T.P., Dupré, B., Scott, I.L., Bui, H., Wheeler, K. M., Keller K. M., Kassir, J. M. "Di- and Trivalent Small Molecule Selectin Inhibitors," July 6, **1999**, patent number US 5,919,768.

Dantanaryana, A. P., Dupré, B., May, J. A., Lynch, V. M. "A Convenient Synthesis of the Novel 5*H*-Thieno[2,3-*e*]-4,1,2-oxathiazepine Ring System *via* an Alkoxy-carbenium Ion Intermediate". *J. Heterocyclic Chem.*, **1999**, *36*, 65.

Kogan, T.P., Dupré, B., Bui, H., Wheeler, K. L., Kassir, J. M., Scott, I.L., You, T. J., Hu, X., Beck, P.J. "Novel Synthetic Inhibitors of Selectin-Mediated Inflammation." *J. Med. Chem.* **1998**, *41*, 1099.

Beck, P.J., Kogan, T.P., Dupré, B., Keller, K.M., Scott, I.L. "Compositions and Methods of Inhibiting the Binding of E-Selectin or P-Selectin or Sialyl Lewis<sup>x</sup> or Sialyl Lewis<sup>a</sup>," April 22, **1997**, patent number US 5,622,937.

Dupré, B., Bui, H., Scott, I.L., Market, R. V., Keller, K. M., Beck, P. J., Kogan, T.P. "Glycomimetic Selectin Inhibitors: ( $\alpha$ -D-Mannopyranosyloxy)methyl biphenyls." *Biorg. Med. Chem. Lett.* **1996**, *6*, 569.

May, J.A., Dupré, B., Chen, H.H., Dean, T.A. "Thienothiazine Sulfonamide Derivatives, Process and Intermediates for their Preparation and Their Use as Carbonic Anhydrase Inhibitors," July 23, **1996**, patent number US 5,538,966.

Kogan, T.P., Dupré, B., Keller, K.M., Scott, I.L., Bui, H., Market, R.V., Beck, P.J., Voytus, J.A., Revelle, B.M., Scott, D. "Rational Design and Synthesis of Small Molecule, Non-oligosaccharide Selectin Inhibitors: ( $\alpha$ -D-Mannopyranosyloxy)biphenyl-Substituted Carboxylic Acids." *J. Med. Chem.* **1995**, *38*, 4976. Presented at the 210<sup>th</sup> ACS National Meeting, Chicago, August 20-24, 1995 (MEDI 018).

Kogan, T.P., Dupré, B., Scott, I.L., Keller, K.M., Bui, H., Beck, P.J. "Compositions and Methods for Inhibiting Binding of E-Selectin or P-Selectin to Sialyl Lewis<sup>x</sup> or Sialyl Lewis<sup>a</sup>," August 22, **1995**, patent number US 5,444,050.

Kogan, T.P., Dupré, B., Dao, H., Keller, K.M., Scott, I.L. "Binding of E-Selectin or P-Selectin to Sialyl Lewis<sup>x</sup> or Sialyl Lewis<sup>a</sup>," Filed July 11, 1994, CIP filed April 20, **1995**.

Dupré, B. and Meyers, A.I., "An Improved Synthesis of Ethyl-(*N*-methoxycarbonyl)-2,5-dihydropyrrole-3-carboxylate." *Journal of Organic Chemistry* **1991**, *56*, 3197.

Martin, S.F., Dappen, M.S., Dupré, B., Murphy, C.J., and Colapret, J.A., "Application of Nitrile Oxide Cycloadditions to a Convergent, Asymmetric Synthesis of (+)-Phyllanthocin." (full paper) *Journal of Organic Chemistry* **1989**, *54*, 2209.

Meyers, A.I., and Dupré, B., "An Asymmetric Total Synthesis of Unnatural (+)-Anisomycin." *Heterocycles* **1987**, *25*, 113. Presented at the Southwest Regional ACS Meeting, Houston, Texas, November 22-23 1986.

Martin, S.F., Dappen, M.S., Dupré, B., Murphy, C.J., "A Convergent Total Synthesis of (+)-Phyllanthocin." *Journal of Organic Chemistry* **1987**, *52*, 3706.

Martin, S.F., and Dupré, B., "Regiochemistry of the Dipolar Cycloaddition of Nitrile Oxides to Unactivated Olefins. Applications to the Stereoselective Elaboration of  $\beta$ -Hydroxy Carbonyl Compounds." *Tetrahedron Letters* **1983**, *24*, 1337.

Ho, C.L., Mahan, C.A., and Dupré, B., "A Rapid Method for Determining U<sub>3</sub>O<sub>8</sub> by Fluorometry." *American Society for Testing and Materials* **1983**, *12*, 177.

Ho, C.L., and Dupré, B., "A Rapid Method for U<sub>3</sub>O<sub>8</sub> Measurement Using Fluorometric Methods." **1981** Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, abstract #643.

Invited presentations:

- Keynote speaker – Rice Undergraduate Research Symposium, April 2008.
- "Homology Modeling as a Tool for Drug Discovery", Texas A&M University, Kingsville, Texas, March 2002.
- "Discovery of Novel Selectin Inhibitors – TBC1269", Division of Immunology and Organ Transplantation, University of Texas Health Science Center, Houston, Texas, April 2001.
- "Rational Drug Design", National Managed Health Care Congress, Washington, D. C., September 1997.
- "Lead Generation and Optimization", Strategic Research Institute, San Diego, California, June 1997.
- "From the Computer to a Pill in a Bottle", Rice University Bioengineering Department, Houston, Texas, October 1995.

# ANGIE T. EATON, PHARM.D

## CURRICULUM VITAE

### CONTACT INFORMATION

**Current address:**

9523 Fossil Canyon Drive

Humble, TX 77396

[eatonat@tsu.edu](mailto:eatonat@tsu.edu)

Cell (832)816-6487

### EDUCATION

**Doctor of Pharmacy**

May 2005

Texas Southern University

College of Pharmacy and Health Sciences

Houston, TX

**High School Science Teacher Certification**

May 2000

Texas Southern University

College of Pharmacy and Health Sciences

Houston, TX

**Bachelor of Science, Biology**

May 1996

Southwest Texas State University

San Marcos, TX

### CERTIFICATIONS AND TRAINING

Texas Pharmacist	Pharmacist License Number #43486	2005-Present
Preceptor	Texas State Board of Pharmacy	2007-Present
Healthcare Provider: CPR/First Aid	American Heart Association	2015-Present

### PROFESSIONAL EXPERIENCE

***Texas Southern University***

***College of Pharmacy and Health Sciences, Houston, TX***

**Chair, Pharmacy Practice and Clinical Health Sciences (2014-present)**

Current responsibilities include administrative oversight, development, management and evaluation of over 30 faculty and staff from three different disciplines, Pharmacy Practice, Respiratory Therapy and Clinical Health Sciences. Responsible for curriculum development and revisions for all three

programs. Additional responsibilities include recruitment of faculty and further development of clinical practice and academic programs.

Appointments and committees

- Executive Committee (2014-present)
- Pharm.D. Curriculum Committee, Chair (2014- present)
- Examination Committee (2009-present)
- Admissions and Academic Standards Committee (2008-present)

**Associate Professor with Tenure, Pharmacy Practice (2012-present)**

- Continued previous duties of former position as Assistant Professor
- Accepted appointments to several university committees
- Collaborated with other health care professionals in the community on publications and grants

**Interim Director of Continuing Education (2009-2010)**

- Provided continuing education to alumni and preceptors biannually
- Served as the liaison for community and clinical partnerships to provide continuing education credit
- Maintained continuing education accreditation standards set forth by the American Colleges of Pharmaceutical Educations (ACPE)

**Assistant Professor (Tenure Track), Pharmacy Practice (2006-2012)**

- Assist in the functions of a Drug Information Center, including monograph preparations; drug usage evaluations; adverse drug event and medical errors reporting; reviewing and procurement of drug information resources
- Conduct outcomes research; assisting in the activities of the Pharmacy and Therapeutics Committee
- Provide didactic and experiential training to Doctor of Pharmacy students;
- Educate medical, nursing, and other healthcare professional staff within the affiliated institution

***Walmart Supercenter  
Atascocita, TX***

**Retail Staff Pharmacist (2005-present)**

- Review, verify physician orders
- Dispenses medications for retail sales
- Consult with patients/customers, families and other healthcare providers on medication management

***Hoffman La-Roche  
Nutley, NJ***

**Drug Information Resident (2005-2006)**

- Researched and developed verbal and written responses to inquirers from health care professionals
- Provided direct support the Roche Pharmaceutical Service Center
- Interacted with other departments and the Product Marketing Team
- Assisted in developing medically oriented educational programs and presented seminars for health care practitioners and students

- Contributed to the operational management of the Robert Wood Johnsons/Rutgers Drug Information Center

***Houston Independent School District  
Worthing High School, Houston, TX***

**Secondary Science Teacher**

- Taught courses in Science, including Inorganic Chemistry, Organic Chemistry, Biology and Biotechnology at an inner city high school
- Provided an in depth curriculum for college preparatory courses, while effectively engaging students in safe cooperative learning situations

**TEACHING EXPERIENCE**

**Didactic Teaching**

**Course Coordinator**

PHAR 515 - Professionalism I  
 PHAR 429 - Emergency Preparedness  
 PHAR 641 - Pharmacotherapy IV – Respiratory Disorders  
 PHAR 532 - Drug Literature and Evaluation  
 PHAR 418 - Spanish for Pharmacy Professionals

**Team Teaching**

PHAR 421 – Counseling and Communication  
 PHAR 422 – Dispensing and Prescription Practice  
 PHAR 510 – Pharmacotherapy Skills Lab  
 PHAR 542 – Pharmacotherapy II  
 PHAR 630 – Pharmacotherapeutics I  
 PHAR 633 – Advanced Pharmacotherapeutics II  
 PHAR 632 – Professional Communication and Counseling  
 PHAR 635 – Prescription Practice  
 PHAR 631 – Drug Information, Literature and Evaluation  
 PHAR 644 –Pharmacotherapy VI  
 PADM 530 – Ethics  
 PHAR 211 – Pharmacy Applications

**Non-Didactic**

Phar 747 – Drug Information, Harris Health System  
 Phar 779- Academic Pharmacy  
 Phar 711- Pharmacy Seminar

**GRANTS**

Co-Investigator – Health and Human Services Commission  
 Coverage of Medically Necessary Minerals and Vitamins for Pediatric Medicaid Patients  
 Texas Health and Human Services Commission  
 Amount Funded- \$62,062.21  
 Period of Funding – 01/07/2009-08/31/2009

Principal Investigator –U.S. Health Resources and Administration  
Baylor College of Medicine, Texas Consortium Geriatric Education Center  
Amount Funded- \$175,000  
Period of Funding- 09/1/2007- 06/30/15

Co-Investigator – Department of Defense  
Anabolic Steroids in Dietary Supplements: Comprehensive Analysis by GC/MS, LC/MS/MS and NMR  
Spectroscopy and Database Initiative  
Amount Funded -\$142,038  
Period of Funding – 1/1/2007-12/31/2007

## PUBLICATIONS

Ndefo UA, **Eaton AT**. Empagliflozin (Jardiance): A novel SGLT2 inhibitor for the treatment of type-2 diabetes. P & T. 2015; 40(6):364-8.

Ndefo UA, **Eaton AT**, Green MR. Polycystic ovary syndrome: A review of treatment options with focus on pharmacological approaches. P & T. 2013;38(6): 336-55.

Cheung L, **Eaton A**. Age-related macular degeneration. Pharmacotherapy. 2013;Aug;33(8):838-55.

**Eaton A**, Simpson S, Magare G et al. Update for pharmacists about the management of atopic dermatitis. Continuing Education. 2012.

**Eaton A**, Williams A, Ebele S. Atopic dermatitis in the pediatric population: Pathogenesis, treatment and quality of life issues. US Pharm. 2012;37(4): 31-34.

Ndefo UA, Auer J, Poon I et al. Cardiovascular Drugs. Handbook of Drug Interactions: A clinical and forensic guide. 2012; Chapter 9: 285-381.

**Eaton-Maxwell A**, Ndefo U, Ebeid A. The use of psychotherapeutic medications in war veterans. Continuing Education. US Pharm. 2010.

**Eaton-Maxwell A**, Ebeid A. Treatment of hypertension in the elderly. US Pharm 2009;34(6):HS(12)-HS(18).

Maclayton DO, **Eaton-Maxwell A**. Rifaximin for the treatment of hepatic encephalopathy. Ann Pharmacother. 2009;43:77-84.

**Eaton-Maxwell A**, Maclayton DO, Nguyen H. Current and emerging treatment options for postmenopausal osteoporosis. Formulary 2008;43:166-179.

Anadu Ndefo U, **Eaton-Maxwell A**, Nguyen H, Chiobi T. Management of Sickle Cell Disease. P & T. 2008;33: 238-246.

**Eaton A**, Tran T. Cinnamon- More than just a flavoring agent. US Pharm. 2007;32(12) 38-42.

Angie T. Eaton, Pharm.D.

## POSTER PRESENTATIONS

Ndefo UA, **Maxwell A**, Brown JM. Evaluation of the utilization of tumor necrosis factor blockers in a county hospital system. (P158D) Presented ASHP Midyear Clinical Conference, Orlando, FL. (12/08)

**Maxwell AE**, Estes F, Moultry AM. Perceptions of students, faculty, and alumni for preferred didactic electives in the pharmacy curriculum. Presented: 109<sup>th</sup> Annual Meeting of the American Colleges of Pharmacy Education, Chicago, IL, July 19-23, 2008. AJPE 2008;72(3):Article 72. (07/08)

Ndefo UA, **Maxwell AE**. Doctor of pharmacy student's evaluation of drug information practical examination. Presented: 109<sup>th</sup> Annual Meeting of the American Colleges of Pharmacy Education, Chicago, IL, July 19-23, 2008. AJPE 2008;72(3):Article 72.(07/08)

**Eaton-Maxwell A**, Henry A, Okpara A. Adherence to formulary restrictions criteria for paliperidone therapy in schizophrenia and schizoaffective disorders after failure on risperidone and another atypical antipsychotic agent. (P32D) Presented: 42<sup>nd</sup> ASHP Midyear Clinical Meeting, Las Vegas, NV. 12/07

Simpson S, **Eaton-Maxwell A**, Henry AC. Improving prescribing patterns for the Harris County Hospital District through a retrospective drug utilization evaluation. (SP172) Presented: 42<sup>nd</sup> ASHP Midyear Clinical Meeting

Ogunno O, Hayes T, **Eaton A**, Milton-Brown J, Lal LS. Direct to consumer advertising in magazine and television media: An observational study. Presented: ASHP Midyear Clinical Conference, Anaheim, CA. (12/06)

**Eaton A**, Boggs G, Blaetz E, Baker R. Drug Information Resident Evaluations: A Benchmarking Survey of Pharmaceutical Companies. Roche Labs, Nutley, NJ Presented: 17<sup>th</sup> Annual Drug Information Association Meeting, Orlando, FL (02/06)

## PODIUM/MEDIA PRESENTATIONS

Eaton AT. "Sleep Disruptors" (Guest Health Care Professional); Great Day Houston with Debra Duncan, KHOU Channel 11, Houston, TX (04/30)

Eaton AT. "Pharmacy Preceptorship 101"; "Current Clinical Practices in the Management of Asthma" Presentation: Best Clinical Practices, University of Nigeria, Nssuka. (07/2015)

Eaton AT. "Instructional Methods in Health Professions Education". Teaching Certificate Module I, Texas Southern University College of Pharmacy and Health Sciences, Continuing Education(02/2016)

Eaton-Maxwell. Pharmacology of the Elderly Patient. Presented: Geriatric Symposium, Texas Woman University, Houston, Texas. (02/14)

Eaton AT. "Acetaminophen Toxicity" News Fix, CW39, Houston, TX (01/2014)

## COMMITTEE APPOINTMENTS

### University Committees

Texas Southern University, Rank, Tenure and Promotion Committee	2012-2014
Faculty Senator	2012-2013
Faculty Grievance Committee	2013
University Curriculum Committee	2011-2013

### College Committees

TSUCOPHS - Dean Search Committee	2013
Integrated Pharmacotherapy Work Group IV (Co-Leader)	2009-Present
Professionalism and Student Faculty Relationship Committee,, Chair	2009-2013
Journal Club Coordinator: Ben Taub, Harris County Hospital District	2007- 2012
Pharmacy & Therapeutics Committee: Harris County Hospital District	2007- 2011
Didactic Electives Curriculum Subgroup (Leader)	2007-2009
Comprehensive Exam Committee	2007-2011
Co-Advisor, Kappa Psi	2007-present
Student Advisor, TSUCOPHS	2007-present

## REFERENCES

Available upon request

## CURRICULUM VITAE

NAME: Mofolorunso A. Enigbokan

COLLEGE: College of Pharmacy and Health Sciences

DEPARTMENT: Pharmaceutical Sciences

DATE AND RANK OF FIRST APPOINTMENT: March, 1987  
Assistant Professor

SECONDARY APPOINTMENT: None

YEARS GRANTED TOWARD TENURE AT EMPLOYMENT TIME: Zero

CURRENT RANK: Professor of Pharmacology

DATE OF CURRENT RANK: 2017

DATE OF TENURE: 1992

YEARS OF ACADEMIC SERVICE: 30 years

STATUS OF DEGREE: Terminal

EDUCATION: Indiana University, Bloomington, Indiana  
Tissue Culture and Viral Techniques, 1990

Post-Doctoral Training  
Department of Experimental Pediatrics  
M.D. Anderson Hospital and Tumor Institute  
Houston, Texas 1985-1987

Howard University College of Medicine  
Washington, D.C.

Ph.D. Pharmacology, 1985

Texas Southern University, Houston, Texas

M.S. (Micro)Biology, 1978

Texas Southern University, Houston, Texas

B.S. Pharmacy, 1976

Central YMCA Community College, Chicago, Illinois

Chemistry Major, 1972-1973

LICENSURES:

Registered Pharmacist in:

District of Columbia (02543)

State of Maryland (04970)

State of Texas (28790)

Certified Immunization Pharmacist

Certified CPR Administrator

FIELDS OF INTEREST:

Teaching:

Pharmacology; Microbial and Cancer Chemotherapy;

Pathophysiology

Research:

Transport and Effectiveness of Anti-AIDS and Anti-Cancer Drugs

Impact of Halogens, Trace Elements and Heavy Metals on Health

Natural Hypoglycemics

PROFESSIONAL  
EMPLOYMENT:

Associate Professor of Pharmacology

Texas Southern University, 1991-Present

Adjunct Professor of Pharmacology

Prairie View A & M School of Nursing

Houston, Texas. 1995-1998

Pharmacist (on call)

Prucare Pharmacy, Houston, Texas. 1985-2001

Adjunct Professor of Pharmacology

UT Graduate School of Nursing

Houston, Texas. 1988-1994

Adjunct Professor of Pharmacology

UT Health Science Center, School of Allied Health Sciences

Houston, Texas. 1987-1992

Pharmacist (Part-time)  
Spring Branch Memorial Hospital  
Houston, Texas 1988-1990

Assistant Professor of Pharmacology  
Texas Southern University, COPHS  
Houston, Texas. 1987-1991

Project Investigator  
UT M.D. Anderson Hospital and Tumor Institute  
Houston, Texas. 1985-1987

Graduate Teaching Assistant  
Howard University College of Medicine  
Washington, D.C. 1981-1984

Staff Pharmacist  
Prince George's County General Hospital  
Cheverly, Maryland 1982-1984

Pharmacist (Part-Time)  
Group Health Association  
Washington, D.C. 1981-1984

Pharmacist  
D-M Pharmaceuticals  
Rockville, Maryland. 1981

Pharmacist Apprentice  
Southern Maryland Hospital  
Clinton, Maryland. 1979-1981

PROFESSIONAL SERVICES: Pharmaceutical Services (as needed)  
Costco Pharmacy, Houston, Texas. 2001-Present

ORGANIZATIONS: Kappa Psi Pharmaceutical Fraternity (Advisor/Member 1988-  
Current)  
Rho Chi Honor Society (Advisor 1998-2002)  
Beta Beta Beta Honor Society (Member, 1977-Current)  
American Diabetes Association (Member, 2004)  
American Association for the Advancement of Science (Member,  
1996-2000)

American Association of Colleges of Pharmacy (Member, 1989-1991)  
Southeastern Cancer Research Association (Member, 1981-1984)

HONORS: Rho Chi Honor Society – Advisor  
Beta Beta Beta Honor Society  
Honorary Chairperson, TSU Homecoming Continuing Education Meeting and Reception (2010, 2012, 2013)  
Who's Who Among Executives and Professionals (2000)  
Nominated for "Piper Professor Award", 1996  
Who's Who Among College Professors (1995)

AWARDS AND PRIZES: COPHS Alumni Teacher of the Year Award, 2010  
Eko Club "Education Award", 2009  
Advisor of the Year, 2007  
Trendsetter Health Professional Award (given by African Pride Media Group, 2007)  
Outstanding Service and Dedication to Teaching Award (given by COPHS Awards Committee, 2006)  
Pharmacy Education Award (from Nigerian Pharmacist Association, Dallas/Fort Worth, 2003 )  
Nigerian Foundation Community Award, 2002  
Professor of the Month (from SNPhA, March, 2002)  
COPHS Alumni Teacher of the Year Award (2000)  
An American Association of Colleges of Pharmacy (AACP) Teacher of the Year, 1999  
TSU COPHS Teacher of the Year, 1998  
AACR-HBCU Faculty Award in Cancer Research (1998)  
Torch Award (COPHS Most Inspirational Teacher, 1994)  
Torch Award, 1993  
Brother of the Year, Kappa Psi Pharmaceutical Fraternity, 1993  
Torch Award (1992)  
COPHS Teacher of the Year Award, 1992  
Graduating Seniors' Teacher of the Year Award, 1992  
McCleary Award (given to the Most Outstanding Teacher in the entire University, 1992)  
Cited by Governor Ann Richards of Texas for "Excellence in Teaching", 1992  
Cited by Mayor Bob Lanier of Houston for "Excellence in Teaching", 1992  
Graduating Seniors' Teacher of the Year, 1991

Outstanding Patient Care Award ( given by Southern Maryland Hospital Center, June, 1981 )

GRANTS (Funded):

Texas Southern University Developmental Grant, 2003  
Evaluating the Knowledge and Attitudes of Community Pharmacists towards Antibiotic Use and Resistance  
Role: Co-PI  
Amount: \$10,000

Travel Grant, 1998  
Funding Agency: American Association for Cancer Research  
Role: PI  
Amount: \$1,500

NIEHS Training Grant (a TSU-UT Collaborative Effort), 1996  
Role: Training Faculty  
Amount: \$1,177,550.00

Chemical Attenuation of Anti-HIV Nucleosides Toxicity, 1995  
Funding Agency: NIH through AMPHS AIDS Consortium  
Role: PI  
Amount: \$19,872

Association of Minority Health Professions Schools (AMHPS) AIDS Research Consortium, 1994  
Funding Agency: NIH  
Role: Associate Investigator  
Amount: \$4,606,739

Interactions Between Anti-HIV Drugs and Anti-Arrhythmic Agents at the Renal Level, 1993-1994  
Funding Agency: Alfred P. Sloan Foundation  
Role: PI/Mentor  
Amount: \$2,500

Influence of Halogens on Nutrients, 1992  
Funding Agency: Minority Health Professions Foundation ( through Centers for Disease Control )  
Role: PI  
Amount: \$9,900

Impact of Trace Elements and Heavy Metals on the Health Status of Urban Populations, 1992

Funding Agency: NIH through Research Centers in Minority Institutions (RCMI)  
Role: Cluster Leader (Biochemical Pharmacology and Toxicology)  
Amount: \$3,000,000

TSU Faculty Development and Research Award, 1991  
Enhancing the Antitumor Activity of Nucleosides  
Funding Agency: TSU  
Role: PI  
Amount: \$3,000

Travel Grant, 1991  
To Attend the American Association for Cancer Research (AACR) Special Conference in Alberta, Canada  
Funding Agency: NIH (through AMHPS)  
Role: PI  
Amount: \$1,000

Travel Grant, 1991  
To Attend AACR Meeting in Banff, Canada  
Funding Agency: TSU  
Amount: \$509

Epithelial Transport of Nucleosides, 1990  
Funding Agency: NIH through Minority Biomedical Research Support (MBRS)  
Role: PI  
Amount: \$246,000

Chemical Potentiation of Antitumor Activity of Pyrimidines, 1988  
Funding Agency: TSU Faculty Development and Research Award  
Role: PI  
Amount: \$3,000

**GRANTS APPROVED:**

Improving the Therapeutic Ration of Antineoplastics, 1989  
Funding Agency: National Cancer Institute  
Program: Academic Research Enhancement Award (AREA)  
Role: PI  
Amount: \$66,513

Effect of Cimetidine on Renal Clearance and Efficacy of Therapeutic Nucleosides, 1988

Funding Agency: American Association of Colleges of Pharmacy (AACP)  
Role: PI  
Amount: \$5,000

Epithelial Transport of Nucleosides, 1987  
Funding Agency: National Cancer Institute  
Program: First Independent Research Support and Transition (FIRST) Award  
Role: PI  
Amount: \$283,533

GRANTS NOT FUNDED: Texas Southern University-Baylor College of Medicine Center for Reducing Asthma Disparities, 2002  
Funding Agency: NIH  
Role: Co-PI  
Amount: \$25,000,000

Antilipidemic Properties of Opuntia Species, 1991  
Funding Agency: The Herb Society of America  
Program: Research and Educational Grant  
Role: PI  
Amount: \$5,000

Dietary Components as Adjuvants in the Therapy of Colorectal Cancer, 1990  
Funding Agency: Pharmaceutical Manufacturers Association Foundation  
Role: Co-PI  
Amount: \$9,901

BOOKS/MONOGRAPHS: Introduction to Pharmacology by M.A. Enigbokan, Ph.D., R.Ph (Used in Course AHS 4401 at UT Health Science Center in Houston, Texas for the Nurse Anesthetists Program).

Microbial and Cancer Chemotherapy by M. A. Enigbokan, Ph.D., R.Ph (Used in PAS 359 at TSU COPHS).

ARTICLES: **Enigbokan, M.A.** Origin of the Zika Disease: Some Questions and Concerns. *The Lozenge*, Issue 11, pg 8-11, July 2017.

**Enigbokan, M. A.** Zika Disease. *The Lozenge*, Issue 10, pg 8-9, July 2016.

**Enigbokan, M.A.** Chikungunya Fever/Disease. *The Lozenge*, Issue 09, pg 5-6, July 2015.

**Enigbokan, M. A.** Dengue Fever. *The Lozenge*, Issue 08, pg 6-7, July 2014.

**Enigbokan, M.A.** Ebola Hemorrhagic Fever. *The Lozenge*, Issue 06, pg 6-7, July 2012.

**Enigbokan, M.A.** Giardiasis. *The Lozenge*, Issue 04, pg 12-14, June 2010.

**Enigbokan, M. A.** Cryptosporidiosis. *The Lozenge*, Issue 03, pg 14-16, June 2009.

**Enigbokan, M.A.** Drugs used to Manage Hypertension (Contd.). *The International Socialites Magazine*, Issue 09, pg 46, April 2006.

**Enigbokan, M.A.** Drugs used to Manage Hypertension. *The International Socialites Magazine*, Issue 08, pg 25, January 2006.

**Enigbokan, M.A.** Cerebral Aneurysm: Prognosis, Prevention and Treatment. *The International Socialites Magazine*, Issue 06, pg 58, July 2005.

**Enigbokan, M.A.** Cerebral Aneurysm: Signs and Symptoms. *The International Socialites Magazine*, Issue 05, pg 65, April 2005.

**Enigbokan, M.A.** Cerebral Aneurysm: Definition, Classification, Risks and Causes. *The International Socialites Magazine*, Issue 04, pg 79, January 2005.

**Enigbokan, M. A.** Drug Treatment of Multiple Sclerosis. *The International Socialites Magazine*, Issue 03, pg 42, October 2004.

**Enigbokan, M. A.** Multiple Sclerosis: A Neurologic Disorder. *International Socialites Magazine*, Issue 02, pg 36, July 2004.

REFEREED PUBLICATIONS:

**Enigbokan, M.A.**, Felder, T.B., Kuti, J.O., Ekpenyong, K.I. and Thompson, J.O. Hypoglycemic Effects of *Opuntia ficus-indica* Mill, *Opuntia lindheimeri* Engelm and *Opuntia robusta* Wendl in

Streptozotocin-induced Diabetic Rats. *Phytotherapy Research*, vol. 10, 379-382, 1996.

**Enigbokan, M. A.**, West, D., Preston, J. and Thompson, J.O. Calmodulin Inhibitors and Calcium Channel Blockers Influence 2',3'-Dideoxycytidine (ddC) Renal Excretion. *Cellular and Molecular Biology (Suppl.1)*, vol 41, 515-518, 1995.

**Enigbokan, M.A.**, Preston, J., Hubbard, J.C. and Thompson, J.O. Characterization of, and the Influence of, Calcium Channel Blockers on the Renal Excretion of Pyrimidine Anticancer Agents. *Communication in Chemical Pathology and Pharmacology*, vol.83, No.3, 270-278, 1994.

**Enigbokan, M.A.** Yeast Infections: Pathophysiology and Drug Therapy. *U.S. Pharmacist*, vol.15, No.7, 35-53, July 1990.

**Enigbokan, M.A.** Molds and Dimorphic Fungi: Infections and Drug Therapy. *U.S. Pharmacist*, vol. 15, No.7, H1-H22, July 1990.

**Enigbokan, M.A.** and Okafor, K.C. Preventive Effects of Dietary Components on Gastric Cancer. *Practical Gastroenterology*, vol. XIII, No.3, 17-30, April 1989.

**Enigbokan, M.A.** The Pharmacology and Potential Clinical Uses of the New Dihydropyridine Calcium Channel Blockers. *Pharmacy Times*, vol.55, No.7, 102-108, July 1989.

**Enigbokan, M.A.** and Okafor, K.C. Anticancer Components of Diet. *Infusion*, vol.12, No.5, 6-14, 1989.

Nelson, J.A., Vidale, E. and **Enigbokan, M.A.** Renal Transepithelial Transport of Nucleosides. *Drug Metabolism and Disposition*, vol.16, No.6, 789-792, 1988.

PUBLISHED (INDEXED)  
ABSTRACTS:

Roscoe Edwards, **Mofolorunso Enigbokan**, Doris M. Jackson, James Guilford, William Harrell and Charles E. Hines. Reassessment of Therapeutic Levels of Quetiapine fumarate in Schizophrenic Patients. The 39<sup>th</sup> Annual ASHP Midyear Clinical Meeting, Orlando, Florida, December 5-9, 2004.

Kenneth King, Doris Jackson, Delphina C. Amuneke-Otufale, **Mo A. Enigbokan** and Sunday Moses. Cost Effectiveness of

Buprenorphine Maintenance versus Methadone Maintenance. The 39<sup>th</sup> Annual ASHP Midyear Clinical Meeting, Orlando, Florida, December 5-9, 2004.

Jimmy L. Cooper, Delphina C. Amuneke-Otufale, Doris Jackson, **Mo A. Enigbokan** and Felix O. Azuonye. Influence of Alpha-Theta Neurofeedback Entrainment in the Treatment of Crack Cocaine Addiction. The 39<sup>th</sup> Annual ASHP Midyear Clinical Meeting, Orlando, Florida, December 5-9, 2004.

Adeleye, O.B., **Enigbokan, M.A.**, Hutton, T.L., Lal, L. and Felder, T.B. Evaluation of Total Parenteral Nutrition in the Intensive care Units of a Community Hospital. The 30<sup>th</sup> Annual ASHP Midyear Clinical Meeting, Las Vegas, Nevada, December 3-7, 1995.

Adeleye, O.B., Hutton, T.L., Kidd, T.C., Metu, V.A. and **Enigbokan, M.A.** Improving Adverse Drug Reaction Reporting in a Community Hospital. The 30<sup>th</sup> Annual ASHP Midyear Clinical Meeting, Las Vegas, Nevada, December 3-7, 1995.

Plattenburg, J.P., Egbunike, I.G., Okpara, A.U., Plattenburg, P.D., McCants, E. and **Enigbokan, M.A.** Outcomes, Assessment and Pharmacoeconomic Analysis of Implementing Angiotensin-Converting Enzyme Inhibitor Guidelines in Antihypertensive Therapy. The 30<sup>th</sup> Annual ASHP Midyear Clinical Meeting, Las Vegas, Nevada, December 3-7, 1995.

Bailey, R.E., Abobo, C.V., Okafor, K.C., McCants, E.R. and **Enigbokan, M.A.** Monitoring Warfarin Therapy with the International Normalized Ratio. The 30<sup>th</sup> Annual ASHP Midyear Clinical Meeting, Las Vegas, Nevada, December 3-7, 1995.

Hogan, A.E., Egbunike, I.G., Ike, E.N., Plattenburg, P., Okpara, A., **Enigbokan, M.A.** and Akpaffiong, M. Implementing Patient-Focused care for Ambulatory and Hospitalized Geriatric Patients in a Large County Teaching Hospital. The 30<sup>th</sup> Annual ASHP Midyear Clinical Meeting, Las Vegas, Nevada, December 3-7, 1995.

**Enigbokan, M.A.**, Ekpenyong, K., Kuti, J.O., Felder, T.B. and Thompson, J.O. Hydrolysis of Opuntia Extracts. The 8<sup>th</sup> International Conference on Traditional Medicine and Folklore, St. John's, Newfoundland, Canada, August 17-22, 1994.

**Enigbokan, M.A.**, Thompson, J.O., Amuneke, D.C. and Jegher, N. Interactions between Anti-HIV Nucleosides at the Renal Level. The American Association of Pharmaceutical Sciences (AAPS) Midwest Regional Meeting, Chicago, Illinois, May 23, 1994.

**Enigbokan, M.A.**, Preston, J., Collette, C. and Thompson, J.O. Urinary Elimination of 2',3'-Dideoxycytidine (ddC). The 9<sup>th</sup> Annual Meeting of the American Society of Clinical Pharmacology and Therapeutics, Honolulu, Hawaii, March 24-27, 1993.

Maswoswe, J.J., Stewart, K., **Enigbokan, M.A.**, Egbunike, I., Lewis, H. and Bethea, C. Pharmacists' Attitudes about TPN excess Overfill and Additive Volume. The 28<sup>th</sup> Annual ASHP Midyear Clinical Meeting, Atlanta, Georgia, December 5-9, 1993.

Oziboh, C.O., Egbunike, I.G., Jackson, D., **Enigbokan, M.A.**, Stafford, H., Okafor, K., Lewis, H. and Bethea, C. Prospective Investigation of Drug-related Hospital Admissions to a 580-bed County Teaching Hospital. The 28<sup>th</sup> Annual ASHP Midyear Clinical Meeting, Atlanta, Georgia, December 5-9, 1993.

Maswoswe, J.J., **Enigbokan, M.A.**, Felder, T.B., Abobo, C., Egbunike, I., Baghaie, A., Jackson, D. and Lewis, H. Appropriate Nutritional Assessment in Patients prior to the Initiation of TPN in Four Different Hospitals: Federal, County, Community and Private. The 28<sup>th</sup> Annual ASHP Midyear Clinical Meeting, Atlanta, Georgia, December 5-9, 1993.

**Enigbokan, M.A.**, Felder, T.B., Kuti, J.O., Ekpenyong, K.I. and Thompson, J.O. Hyperglycemic and Hypoglycemic Effects of Opuntia. The 7<sup>th</sup> International Congress of Traditional and Folk Medicine, Merida, Yucatan Peninsula, Mexico, December 3-7, 1993.

**Enigbokan, M. A.**, Felder, T.B., Kuti, J.O., Ekpenyong, K.I. and Thompson, J.O. Effects of Route of Administration on the Hypoglycemic Activities of Opuntia species Extract. The 6<sup>th</sup> International Congress of Traditional and Folk Medicine, Kingsville, Texas, December 6-11, 1992

**Enigbokan, M.A.**, Preston, J., Thompson, J.O. and Collette, C. renal Excretion of 2',3'-Dideoxyinosine (ddI; Videx) in Mice. The American Association of Pharmaceutical Scientists. Midwest Regional Meeting, Chicago, Illinois, May 4, 1992.

**Enigbokan, M.A.**, The Characteristics of 5'-Deoxy-5-Fluorouridine Transport, Ph.D. Dissertation, Howard University College of Medicine, Washington, D.C., May 1985.

Bowen, D. and **Enigbokan, M.A.** 5'-Deoxy-5-Fluorouridine: A Model Substrate for the Study of Pyrimidine Nucleosides Transport. Proceedings of the American Association for Cancer Research, pg. 219, March 1982.

**Enigbokan, M.A.** and Bowen, D. A kinetic Analysis of the Uptake of 5'-Deoxy-5-Fluorouridine in Ehrlich Ascites Tumor Cells. Proceedings of Southeastern Cancer Research Association, pg. 2, October 1981.

**Enigbokan, M.A.** The Anticariogenic Effects of Fagara zanthoxyloids, M.S. Thesis, Texas Southern University, Houston, Texas, 1978.

OTHER SCHOLARLY  
ACTIVITIES:

Contributor to United States Patent Number 5,447,720.  
Composition and Methods for Treatment of  
Hemoglobinopathies, September 1995.

Application and Design of Curriculum for the MS/PhD Program in  
Pharmaceutical Sciences at TSU COPHS, April 2004.

Faculty Participant in UT's Educators' Institute: A  
Multidisciplinary Approach to Chemical Abuse and Dependency,  
University of Texas, Austin, Texas, 2000.

Lecturer, International Health and Pharmaceutical Consortium,  
1990.

Trained four (4) Undergraduate students in Basic Biological  
Research. They presented their findings at Scientific meetings.

TEACHING:

Except otherwise stated, ALL of the listed courses are  
Professional Courses.

**1987**

PAS 450: Special Problems in Pharmacology

PAS 451: Pathophysiology 3  
PAS 544: Pharmacology II

**1988, 1989, 1990**

PAS 231: Pharmacology for Respiratory Therapy Program  
PAS 351: Pathophysiology-Pharmacology 1  
PAS 352: Pathophysiology-Pharmacology 2  
PAS 450: Special Problems in Pharmacology  
PAS 451: Pathophysiology-Pharmacology 3  
PAS 452: Pathophysiology-Pharmacology 4  
PAS 543: Pharmacology 1  
PAS 544: Pharmacology 2  
PAS 943: Advanced Pharmacology (Post-Baccalaureate)

**1992 – 1999**

PAS 231: Pharmacology for Respiratory Therapy Program  
PAS 351: Pathophysiology-Pharmacology 1  
PAS 352: Pathophysiology-Pharmacology 2  
PAS 450: Special Problems in Renal Pharmacology  
PAS 451: Pathophysiology-Pharmacology 3  
PAS 451L: Pathophysiology-Pharmacology 3 Lab  
PAS 452: Pathophysiology-Pharmacology 4  
PAS 452L: Pathophysiology-Pharmacology 4 Lab  
PAS 933: Advanced Chemotherapy (Post-Baccalaureate)  
PAS 943: Advanced Pharmacology (Post-Baccalaureate)  
ES902: Mechanisms of Toxic Actions (Graduate course in Environmental Sciences)

**2000-2010**

PAS 435: Pathophysiology 1  
PAS 415: Pathophysiology 1 Lab  
PAS 436: Pathophysiology 2  
PAS 535: Pathophysiology 3  
PAS 537: Pharmacology/Toxicology 1  
PAS 517: Pharmacology/Toxicology 1 Lab  
PAS 547: Pharmacology/Toxicology 2  
PAS 539: Chemotherapy  
PHARM 601: Special Problems in Cancer Chemotherapy

**2010-2017**

PHAR 111: Pharmacy Orientation (Pre-Pharmacy course)

PHAR 438: Principles of Drug Action 1  
PHAR 418: Principles of Drug Action 1 Lab  
PHAR 439: Principles of Drug Action 2  
PHAR 419: Principles of Drug Action 2 Lab  
PHAR 538: Principles of Drug Action 3  
PHAR 518: Principles of Drug Action 3 Lab  
PHAR 640: Pharmacotherapy 3

**OTHER CONTRIBUTIONS TO THE AREA OF TEACHING:**

Developed PHAR 111, PAS 450, PAS 539, PAS 933, ES 902, PHAR 640 and PHARM 601.

Established and Implemented the “Exam Week” format in the COPHS ( in order to address Attrition, Retention and Proctoring issues in the College ).

Introduced “Pharmacology Jeopardy” , “Clinical Role Playing” and “Exercises in Treatment of Choice” into Pharmacology courses.

Gave a Seminar on Effective Teaching at TSU COPHS at a Faculty Retreat in Galveston, Texas on June 21, 2002.

**GRADUATE CONTRIBUTIONS:**

**POST-BACCALAUREATE DOCTOR OF PHARMACY CANDIDATES**

Role: Major Advisor

Name: Claudia Walton, Pharm.D candidate, 2006

Dissertation: Use of Buprenorphine in the Management of Chronic Pain in Patients with Opiate Addiction, Past and Present

Role: Major Advisor

Name: Richard Bravo, Pharm.D candidate, 2006

Dissertation: An Assessment of Geodon in the Treatment of Alcohol-Related Psychosis in Chronic Alcoholism.

Role: Major Advisor

Name: Roscoe S. Edwards, Pharm.D candidate, 2004

Dissertation: Reassessment of Therapeutic Levels of Quetiapine Fumarate in the Treatment of Schizophrenic Patients.

Role: Major Advisor

Name: Sokari Iketubosin, Pharm.D candidate, 2004

Dissertation: Geodon versus Haldol in the Treatment of Alcohol-Related Psychosis.

Role: Major Advisor

Name: Olanrewaju B. Adeleye, Pharm.D candidate, 1995

Dissertation: An Evaluation of Total Parenteral Nutrition in the Intensive Care Unit of a Private, For-Profit, 300-Bed, Acute Care Suburban Medical Center.

Role: Major Advisor

Name: Jordan J. Maswoswe, Pharm.D candidate, 1992

Dissertation: Appropriate Nutritional Assessment in patients prior to the Initiation of TPN in Four Different Hospitals: County, State, Community and Private.

.....

Role: Committee Member

Name: Shannon Moore, Pharm.D candidate, 2005

Dissertation: Utilizing Acupuncture as an Adjunctive Modality in Heroin-Methadone Treatment Programs.

Role: Committee Member

Name: Gerard G. Ramirez, Pharm.D candidate, 2003

Dissertation: Clinical Factors affecting 3-(alpha-Acetylbenzyl)-4-Hydroxycoumarin Therapy in Patients with Thromboembolic Disorders.

Role: Committee Member

Name: Jimmy Lee Cooper, Pharm.D candidate, 2003

Dissertation: The Influence of Alpha-Theta Neurofeedback Entrainment in the Treatment of Crack Cocaine Addiction.

Role: Committee Member

Name: Kenneth King, Pharm.D candidate, 2003

Dissertation: A Comparative Study of Methadone versus Buprenorphine in the Treatment of Opioid Addiction.

Role: Committee Member

Name: George R. Larach, Pharm.D candidate, 1997

Dissertation: Angiotensin-Converting Enzyme Inhibitor-Induced Angioedema in African-Americans: Risk Assessment.

Role: Committee Member

Name: R. E. Bailey, Pharm.D candidate, 1995

Dissertation: Monitoring Warfarin Therapy with the International Normalization Ratio.

Role: Committee Member

Name: John P. Plattenburg, Pharm.D candidate, 1995

Dissertation: Outcomes Assessment and Pharmacoeconomic Analysis of Implementing Angiotensin Converting Enzyme Inhibitor Guidelines in Antihypertensive Therapy.

Role: Committee Member

Name: Ansa E. Hogan, Pharm.D candidate, 1995

Dissertation: Implementing Patient-Focused Care for Ambulatory and Hospitalized Geriatric Patients in Large County Teaching Hospital.

Role: Committee Member

Name: Jacqueline A. Page, Pharm.D candidate, 1995

Dissertation: Incidence of Catheter-Related Complications in ICU Patients receiving TPNs.

Role: Committee Member

Name: Chinwe Queen Mbaezue-Ozigboh, Pharm.D candidate, 1992

Dissertation: Drug-Related Hospital Admissions to a 580-Bed Teaching Hospital.

Role: Committee Member

Name: Sharon Eileen Jones, Pharm.D candidate, 1991

Dissertation: A Concurrent Evaluation of Anticoagulant use in a 550-Bed Teaching Hospital.

#### **MASTER OF SCIENCE DEGREE CANDIDATES**

Role: Thesis Committee Member

Name: Yasmeen Rizvi, M.S. degree candidate, 2005

Thesis: Lead and Arsenic Mixture-Induced Toxicity in Neuronal Cells.

Role: Thesis Committee Member

Name: Dameion Crook, M.S. degree candidate, 2004

Thesis: The Effects of Elevated Ultraviolet Light-B Xanthomonas Campestris pv. campestris: the Bacteria causing Black Rot in Cabbage.

Role: Thesis Committee Member

Name: Cyril Nwaorie, M.S. degree candidate, 2004

Thesis: Effects of Chronic Ingestion of Lead [Pb] on Plasma Bilirubin Levels in Developing Male in Developing Male Wistar-Kyoto Rats.

Role: Thesis Committee Member

Name: Kenneth Uzoaga, M.S. degree candidate, 1999

Thesis: Hepatic Aromatic Amine(s) and Diazo-Oxide positive Reactivity as Affected by Chronic Ingestion of Lead [Pb] in Male Sprague-Dawley Rats.

Role: Thesis Committee Member

Name: Karen Knowles, M.S. degree candidate, 1996

Thesis: Gene Therapy for Sickle Cell Anemia.

Role: Thesis Committee Member

Name: Sharon R. Williams, M.S. degree candidate, 1994

Thesis: Characterization of HIND III Family of Repetitive DNA in Pharaoh Quail.

Role: Thesis Committee Member

Name: Padmini Jandhyala, M.S. degree candidate, 1993

Thesis: Effect of Lead [Pb] on Renal cells

## **Ph.D. DEGREE CANDIDATES**

Role: Dissertation Committee Member

Name: Ayodotun Sodipe, Ph.D. candidate, 2008

Dissertation: Identification of Stachybotrys species using Genomic Methods.

Role: Dissertation Committee Member

Name: Veronica Amaku, Ph.D. candidate, 2003

Dissertation: Development and Evaluation of a Novel Functional Genomics Method for the Identification and Toxicological Assessment of Fungi.

Role: Dissertation Committee Member

Name: Violet Ilegbodu, Ph.D. candidate, 2003

Dissertation: Studies on Chronic Ingestion of Lead [Pb], Its Effects on Blood Pressure and on Several Minerals in the Bone of Normotensive Male Wistar-Kyoto Rats.

Role: Dissertation Committee Member

Name: Olumide O. Ogunmosin, Ph.D. candidate, 2003

Dissertation: Natural Products as Sources of Environmentally Safer Pest Control Agents.

SERVICES TO THE  
UNIVERSITY:

Served on the following Committees:

Scientific Misconduct Inquiry Committee, 2017

TSU Curriculum Committee, 2000-2002

COPHS Dean Search Committee, 1999

University Self-Study Committee on Research, 1988 (for SACS)

Radiation Safety Committee, 1988-1999

Other Services:

Participated in the Human Subjects Policies and Procedures Research Workshop, 2004

COPHS Representative on the TSU Faculty Senate, 2002

Mentor, International Development Studies Program, 1994

Mentor, NASA-SHARP PLUS QEM Program, 1994

Mentor, NIH Minority High School Student Research Apprentice Program, 1994

Coordinator, Human Genome Initiative, 1990

Mentor, TSU Honors Program, 1988

Commencement Marshal, 1987-1990 (for COPHS graduates)

SERVICES TO COPHS:

Served on the following Committees:

Chairman, Search Committee for an Assistant Professor of Pharmacology, 2014

Technology Committee, 2007-2008

Comprehensive Examination Committee, 2000-2006

Search Committee, 2005 (for MS/PhD Program faculty)  
Chairman, Biomedical and Pharmaceutical Sciences MS/Ph.D  
Degree Program Committee, 2003  
Faculty Search Committee, 2002 (for Pharmacy Practice)  
COPHS Executive Committee, 1999-2005  
Ad Hoc Texas Medical Center Program Development Committee,  
2002  
Doctor of Pharmacy Program Enhancement Committee, 2001  
Chairman, COPHS Curriculum Committee, 2000-2001  
Faculty Evaluation, Tenure and Retention (FERT) Committee, 1999  
TxPHARM Committee (Joint Long-Distance Pharmacy program for  
holders of B.Pharm involving TSU, UH, UT) , 1999  
COPHS Scholarship Committee, 1997-1999  
Admissions Committee, 1995  
Member, COPHS Curriculum Committee, 1995  
Self-Study Library Resources Committee, 1992-1993  
Self-Study Experimentation and Evaluation Committee, 1992-1993  
Chairman, Search Committee for Educational Specialist, 1992  
Grievance Committee, 1992  
Chairman, Self-Study Committee on Undergraduate Program,  
1990  
COPHS Curriculum Committee, 1989-1990

Other Services:

Chairman, Department of Pharmaceutical Sciences, 1999-2005  
Member, Pharmacy Accreditation Task Force, 1999  
Director of Continuing Education Program, 1995  
Group Coordinator, Clinical Conference Program, 1995  
Member, Task Force on Academic Remediation, 1995  
Area Coordinator for Pharmacology and Allied Health Sciences  
(PAS) courses, 1990-1995  
Faculty, High School Research Apprentice Program, 1991  
Member, Center for Health Risk Assessment and Disability  
Prevention, 1991

SERVICES TO THE  
PROFESSION:

Faculty Advisor, African Pharmacy Students Association, 2005-  
Present.  
External Advisor to Eliseo S. Torres, a Ph.D. candidate at Texas A &  
M University, Kingsville, TX. 2005.  
Member, Student Advisement Team, 2000.  
Faculty, H-COP Program, 1999.

External Proctor for University of Illinois at Chicago College of Pharmacy, Chicago, Illinois. 1997.  
Reviewer, U. S. Pharmacist ( a professional journal ), 1991, 1995  
Peer Reviewer, APhA Journal, 1993  
Peer Reviewer, Journal of Pharmaceutical Sciences, 1993  
MBRS Special Review Committee, 1991  
Faculty Advisor, Kappa Psi Fraternity, 1990  
Faculty Advisor, Students National Pharmaceutical Association (SNPhA) 1989-1993

#### PRESENTATIONS:

Panelist: TSU Medical Forum. 2017.

Special Guest Speaker: Annual Alumni Dinner for Graduating Pharmacy Students.

Topic: Inspirational Topics, 2012-2017.

Speaker: TSU Homecoming Continuing Education Meeting and Reception.

Topic: Thrombosis. 2013.

Speaker: TSU Homecoming Continuing Education Meeting and Reception.

Topic: Anticoagulants. 2012.

Speaker: TSU Respiratory Therapy Day.

Topic: Use of Beta Blockers in Asthma Management. 2009

Speaker: TSU Respiratory Therapy Day

Topic: Anti-Asthmatic Agents. 2008.

Speaker: American Association of Colleges of Pharmacy (AACP) Institute.

Topic: Texas Southern University Assessment Plan, 2000.

Guest Speaker: Kappa Psi Pharmaceutical Fraternity Annual Lecture Series at Houston, TX.

Topic: The Upper Gastrointestinal Pharmacology. 1992

Guest Speaker: Minority Male Health Conference, Houston, TX.

Topic: Drugs Used to Manage Diseases that are Prevalent in Minorities. 1991.

Speaker: A Division of Pharmacy Practice Continuing Education on "What's Happening in Pharmacy Education?"

Topic: Update: Applied Pharmacological Concepts. 1991.

Speaker/Panelist: TSU Continuing Education on Therapeutic Use of Antiemetic Agents in Drug-Induced Nausea and Vomiting.

Topic: Pathophysiology of Emesis. 1991.

Speaker: Texas Southern University, Pharmacology Seminar.

Topic: Interactions between Calcium Channel Blockers and Chemotherapeutic Nucleosides. 1989.

Guest Speaker: Lambda Kappa Sigma Hygeia Day Program.

Topic: Points to Ponder About HIV Origin. 1989.

Guest Speaker: Texas Southern University, Department of Biology Research Seminar.

Topic: The Impact of Transport on Cancer Chemotherapy. 1988.

#### RADIO/TELEVISION APPEARANCES:

Discussed "Antihypertensive Drugs" on KYOK Radio in Houston, 1996.

Discussed "Points to Ponder About the Origin of AIDS" on Television, Channel 8. 1989.

Discussed "Africa – The Health and Education Concerns" on KTSU Radio. 1987.

#### CONTRIBUTIONS TO THE COMMUNITY:

#### PRESENTATIONS:

Speaker: 11<sup>th</sup> Annual NAPPSA (Nigerian Association of Pharmacists & Pharmaceutical Scientists in the Americas) Convention.

Topic: Keys to a Successful Career in Today's Workforce. 2017

Guest Speaker: Nigerian Independence Day Symposium, Corpus Christi, Texas.

Topic: "Nigerianism"—A Proposed Novel form of Government. 2002.

Guest Speaker, In-service for Medical Staff at Memorial Hospital Southeast.

Topic: Origin of AIDS. 1992.

Guest Participant: First Annual Sickle Cell Symposium.

Topic: Pathophysiology of Sickle Cell Anemia. 1989.

Speaker/Panelist: Symposium on "Health and Economic Status of Africa".

Topic: Emerging Diseases in Africa. 1988

#### OTHER SERVICES:

Established a Volunteer Pharmacy at NRG Stadium where donated, free medications were dispensed to Hurricane Harvey victims. 2017.

As a Volunteer Pharmacist, dispensed donated, free medications to Hurricane Harvey victims at YWCA in Houston. 2017.

Patron, Eko Club Houston. 2012-Present.

Member, Board of Directors, Avalon Medical Career Academy. 2012-Present.

Established and Coordinated the Annual APSA Fundraising Gala. The proceeds are used to render financial assistance to COPHS students. 2005-Present.

Participated in APSA Community Health Fair. 2007.

Reviewer for The International Socialites Magazine. 2003-2005.

Citation by Congresswoman Sheila Jackson Lee for Leadership in the prevention of Biological and Chemical Terrorism. 2001.

Member, Board of Directors, Kamboi Enterprises, Inc. 1999-Present.

Science Fair Judge at Full Gospel Christian Academy. 1993

Participated in "Drug Appraisal" Activity at Cuney Homes during the National Minority Health Awareness Week. 1989.

Science Fair Judge at North Forest School System. 1989.

Participated in the development of the Constitution of the Oduduwa Club. 1988.

## **FLORA GEANE ESTES**

3100 Cleburne Street  
Houston, Texas 77004  
(713) 313-1977  
estes\_fg@tsu.edu

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### **Professional Certifications and Licensure**

2014 – Present APHA Accredited Pharmacy-Based Immunization Delivery Faculty Training Program  
2013 – Present Texas Southern University College of Pharmacy and Health Sciences Medication Therapy Management Certificate Training Program for Pharmacist  
2012 – Present Accreditation Council for Pharmacy Education, Continued Pharmacy Education Field Reviewer Certificate Training  
2011 - CPR/Basic Life Support - American Heart Association  
2002 – Present Pharmacist Licensure, Texas, No. 41000  
2002 – Present Pharmacist Preceptor Certification, Texas, No. 41000  
2002 – Present APHA Accredited Pharmacy-Based Immunization Delivery Certificate Program  
2001 – Present Pharmacy Sterile Products/IV Certification

### **Education and Postgraduate**

July 2003      **Drug Information Residency**  
Texas Southern University / Harris County Hospital District, Houston, Texas

May 2002      **Doctor of Pharmacy (Pharm.D.)**  
Texas Southern University, Houston, Texas

May 1997      **Associates in Science Degree (AS)**  
Houston Community College Systems, Houston, Texas

May 1987      **Associates in Applied Science (AAS)**  
Houston Community College Systems, Houston, Texas

### **Professional Experience**

**2009–Present Assistant Dean, Practice Programs**  
Texas Southern University College of Pharmacy and Health Sciences  
Houston, Texas

#### Experience and Responsibilities:

- Provide leadership for the Experiential Education program of the College of Pharmacy and Health Science programs
- Oversee student scheduling for all experiential education experiences.
- Oversee preceptor training and the administrator of an accredited ACPE continuing education program
- Recruit and develop practice sites
- Negotiate and maintain pharmacy contractual obligations with practice sites
- Develop and implement a quality assurance plan for the Experiential Education program (sites and preceptors)
- Assist with the coordination of the Objective Structured Clinical Examination (OSCE) assessment for all professional year classes
- Coordinate and facilitate Clinical Conference course for 4<sup>th</sup> professional year students

- Coordinate 4<sup>th</sup> professional year student participation in university's annual research week as a requirement for Research Seminar clerkship
- Provide leadership for implementation of processes and procedures of the College of Pharmacy related to:
  - Administrative membership to standing COP standing committees as assigned
  - Maintain Preceptor database to meet ACPE requirements
  - Developed a database for tracking and maintaining pharmacy violation sites
  - Oversee and implement updates to Pharmacy Practice Experiential manual
  - Oversee department compliance with regulatory agencies; TSBP and ACPE
  - Work closely with Associate Dean for Academic Affairs regarding student academic progression
- Supervise assigned staff
- Prepares administrative reports
- Participate in local, state and national pharmacy associations
- Perform other duties as assigned

**2013–Present Associated Professor, Pharmacy Practice (Tenure)**

Texas Southern University College of Pharmacy and Health Sciences  
Houston, Texas

Experience and Responsibilities:

- Course Coordinator and Instructor;
  - Prescription Practice Laboratory
  - Pharmacotherapy – Integumentary System, Eye and Ear Disorders
- Coordinator and Primary Investigator;
  - Clinical Pharmacy Research Assistant (CPRA) Program
- Preceptor of Experiential Clerkships;
  - Research
  - Academia (Pilot program 2007)
  - General/Internal Medicine; Geriatric emphasis
- Committee Involvement;
  - Associate/Assistant Dean University Committee
  - Pharmacy Practice Departmental Chair Search Committee
  - College of Pharmacy Curriculum Improvement Committee
  - Comprehensive and Formative/Summative Exam Committee
  - Objective Structured Clinical Examination (OSCE) Committee
  - College of Pharmacy Handbook Revision Committee
  - College Pharmacy Admissions and Academic Standards Committee
  - College Scholarship and Awards Committee
- Provide didactic and experiential training in other required courses as Instructor in the Pharmacy Practice Department
- Texas Southern University (TSU) faculty advisor and mentor

**2008–2013 Assistant Professor, Pharmacy Practice (Tenure Track)**

Texas Southern University College of Pharmacy and Health Sciences  
Houston, Texas

**2008 – 2013 Graduate Faculty Status**

Texas Southern University College of Pharmacy and Health Sciences  
Houston, Texas

**2006 – 2008 Visiting Assistant Professor, Pharmacy Practice**

Texas Southern University College of Pharmacy and Health Sciences  
Houston, Texas

**2005 – 2006    Regional Medical Scientist, Cardiovascular/Metabolic**

GlaxoSmithKline Pharmaceuticals  
Research Triangle Park, North Carolina

Experience and Responsibilities:

- Discuss on-label uses of GSK products or disease-related information
- Respond to unsolicited requests for on or off-label information
- Medical speaker for GSK-sponsored speaker programs
- Speaker for Independent Medical Education Programs
- Presentations to pharmacy & therapeutic and formulary committees as requested
- Train physicians as speakers for GSK, provide scientific support and serve as a medical resource
- Provide scientific training to the GSK sales representatives regarding GSK products and the conditions they treat
- Attend scientific conventions to address unsolicited questions regarding GSK products
- Support collaborative and GSK-sponsored research trials

**2003 – 2005    Clinical Administrator, Drug Information**

Texas Southern University College of Pharmacy and Health Sciences, Houston, Texas  
Harris County Hospital District, Houston, Texas

Experience and Responsibilities: (Instructor)

- Course Coordinator and Instructor;
- Drug Literature Evaluation and Research Designs
- Clinical Drug Literature Evaluation and Research Designs
- Provide didactic and experiential training as Preceptor of Drug Information;
- Post-accelerate pharmacists (TSU)
- Pharmacy Interns (TSU)
- Pharmacy Practice Residency Program (HCHD)
- Developed and implement a student research program through funding from the Fondren Foundation; provide research support for clinical pharmacy staff; assist research students on projects for presentation
- Texas Southern University (TSU) faculty advisor and mentor
- Co-facilitated the birth of HCHD Department of Pharmacy residency program; assist with publicity/interview search committee; resident applicant interviews; coordinate resident orientation schedule; coordinate scheduling of resident training activities during orientation period; residency board member; residency council member
- Coordinate and assist student recruitment through Career Fair participation
- Oversee operations of the HCHD/TSU Drug Information Center, including drug monograph preparations; drug usage evaluations, adverse drug event and medication errors reporting; review and procurement of drug information resources (online and print versions);
- Provide drug information to medical, nursing, and other healthcare professional staff within and outside the affiliated institution, and the general public
- Coordinate monthly patient education presentations on national awareness campaigns.
- Provide patient education during health fair participation

Experience and Responsibilities (Clinical Administrator)

- Update and maintain drug information call database and issue a quarterly report for Pharmacy and Therapeutics (P&T) Committee
- Update and maintain adverse drug event database assisting in the implementation of numerous reports for various departments
- Co-editor pharmacy department newsletter
- Approve/deny physician requests through the Formulary Command Center (FCC) on approvals for restricted formulary drugs (prior authorization program); provide

- information regarding formulary and policy updates and changes
- Contribute to Staff Development training by providing on-going staff education for Harris County Hospital District via ACPE CE programs available through Texas Southern University;
- meetings/teleconferences from outside resources that benefit the Department of Pharmacy (DOP);
- coordinate training of library resources for residents with Houston Academy of Medicine-Texas Medical Center Library (HAM-TMC)
- Coordinate the issuance of library card access for all new clinical pharmacist and residents with local medical library (HAM-TMC Library)
- Collect Quality Assurance information for Harris County Hospital District
- Prepare HCHD General Formulary Subcommittee drug monographs for formulary addition requests.

**2003 – 2005 Relief Pharmacy Manager**  
Sam's Club Pharmacy, Houston, Texas

Experience and Responsibilities:

- Provide retail pharmacy services
- Mentor Pre-Pharmacy Student

**2002 – 2003 Drug Information Resident**  
Texas Southern University College of Pharmacy and Health Sciences, Houston, Texas  
Harris County Hospital District, Houston, Texas

Experience and Responsibilities:

- Receive, document and relay drug information to medical staff and general public.
- Maintain drug information call database and issue quarterly reports for P&T.
- Assist the Formulary Command Center on approvals for restricted formulary drugs (prior authorization program).
- Draft and revise policies and procedures based on regulations from JCAHO, ASHP, TSBP, and other governmental agencies.
- Perform drug use and medication use evaluations.
- Track adverse events with HCHD for incidence of preventable ADEs.
- Attend Investigational Review Board (IRB) on HIV drugs.
- Composed drug monographs for P&T/subcommittee review.
- Contribute toward Staff Development Training
- Supervise Pharm.D. Interns during Drug Information rotations.
- Co-Preceptor for Doctor of Pharmacy Candidates
- Lecture to undergraduate pharmacy students.
- Participate in Journal Club and Pharmacy Department monthly newsletter article review.
- Research reporting habits of adverse drug events to decrease incidence of preventable ADEs.
- Rotation Involvement:
  - Medical Intensive Care Unit (MICU) / Critical Care Unit (CCU)
  - Staffing; Pharmacy Inpatient
  - Pharmacy Administration/Formulary Management

Residency Lecture Experience:

- Drug Information and Literature Evaluation  
Texas Southern University, Houston, Texas
- "Drug Information Resources using Tertiary References".
  - "Drug Information Resources using Secondary References".
  - "Ethical Aspects of Drug Information Practice".
  - "Drug Literature Evaluation, 'Bosentan Therapy for Pulmonary Arterial Hypertension'.

Patient Counseling and Communication; (Indian Health System Counseling Method)  
Texas Southern University, Houston, Texas

- Oral Contraceptives, September 2002
- Insulin Delivery Devices, October 2002
- Osteoporosis, November 2002

**1997 – 2002 Certified Pharmacy Technician (CPhT)/Pharmacist Graduate**  
Harris County Hospital District, Houston, Texas

Experience and Responsibilities:

- Accept and enter new and refill prescriptions into Tandem, Pharmakon, and Rhumba 2000 computer systems
- Dispense new and refill prescriptions
- Enter Medicaid prescription claims for over-the-counter (OTC) drugs
- Credit unclaimed medications, return unclaimed medication to stock, and pull expired drugs
- Picking up and delivering discharge medications for the Emergency Center (EC) pharmacy
- Patient counseling on the kind of drug prescribed and its effect
- Maintaining a clean and safe work environment

**Editorial Activities**

2012 - Present Reviewer, Jones & Bartlett Learning Publishing

2003 – Present Reviewer, American Journal Pharmaceutical Education (AJPE)

**Publications**

Estes FG, "A Collaborative Clinical Pharmacy Research Assistant Program for Pharmacy Student". *Pharmacy Education*, 2014; 14 (1) 44 – 47.

Fike DS, McCall KL, Estes FG, et al., "Promoting Minority Student Learning Gains in a Prescription Practice Course". *Currents in Pharmacy Teaching and Learning* 3 (2011) 17-22.

Anadu U, Estes F, Osemene N, Poon, et al., "Symposium on roles of and cooperation between academic- and practice-based pharmacy clinicians". *American Journal of Health System Pharmacy*. 2010;67: 231-238.

Ebeid AM, Estes FG. "To Gain and Retain: Incorporating Academic Clerkships to address nationwide Pharmacy School Faculty Shortages". APHA 2009 Abstracts (179). *Journal of the American Pharmacist Association*, Mar/Apr 2009; 49:2.

Estes FG. "ImmTrac, Texas Immunization Registry. Current Status and Future Trends." *TSHP Journal*. 2007; 8(2), 19-23.

Estes FG and Lal LL. "Therapeutic Treatment Options for Keloids." *US Pharm*. 2007; 32(4):HS15-HS28.

Dunlop DD and Estes FG. "FDA Approves a New IgE Monoclonal Antibody for Asthma." *Pharmacy Practice News*. 2004; 31(1).

Dunlop DD and Estes FG. "Humira® A New Tumor Necrosing Factor-alpha Inhibitor." *Pharmacy Practice News*, August 2003.

Estes FG. "JNC-7 for Hypertension" *The Pharmacy Beat*, Department of Pharmacy Monthly Newsletter, June 2003.

Estes FG. "Severe Acute Respiratory Syndrome (SARS)" *The Pharmacy Beat*, Department of Pharmacy Monthly Newsletter, May 2003.

Estes FG. "Black Box Warning, What does it mean?" *The Pharmacy Beat*, Department of Pharmacy

Monthly Newsletter, April 2003.

Estes FG, Lal LS, Brown JM, Henry AC. *A Retrospective Analysis of Adverse Drug Events in a County Hospital System*. ASHP Midyear Clinical Meeting, Atlanta, Georgia. Abstract.

### **Poster Presentations**

Vera R, Estes F. *"Polycystic kidney disease: what is it and what is the overall level of awareness?"* Texas Southern University, American Society of Health System Pharmacist, 2014 Midyear Clinical Meeting, Orlando, FL. December 2014 (P- 2-437)

Estes FG, *"Pediatric hypertension: who is keeping watch?"* Texas Southern University. American College of Clinical Pharmacy Annual Meeting, Austin, Texas. October 2014 (P-157)

Joseph J, Harrell T, Aquino K, Estes F. *Impact of Pharmacist-managed Consult Service for Warfarin compared to Standard of Care*. Harris County Hospital District/Texas Southern University Clinical Pharmacy Research Program. Texas Southern University Research Week, Houston, Texas. April 2011.

Estes FG, Pounds KL, Henderson LF, Ebeid AM, Hayes BE. *"Use of OSCE to evaluate the curriculum and student learning"*. Texas Southern University. AACP Annual Meeting, Seattle, WA. July 2010.

Estes FG, Forlemu J, Wiggins C. *"A Retrospective Evaluation of Enoxaparin Utilization in the Geriatric Population in a Community Hospital Setting"*. Harris County Hospital District/Texas Southern University. ASHP Midyear Clinical Meeting, December 2008. (SP-192)

Ebeid AM, Estes FG. *To Gain and Retain: Incorporating Academic Clerkships to address nationwide Pharmacy School Faculty Shortages*. APHA 2009 Abstracts (179)

Eaton-Maxwell AT, Estes FG, Morris AM. *"Perceptions of Students, Faculty, and Alumni for Preferred Didactic Electives in the Pharmacy Curriculum"*. Texas Southern University Research Week. Houston, Texas. April 2009

Estes FG, Lal LL, Hayes Be. *"Descriptive evaluation of a collaborative clinical pharmacy research assistant program for pharmacy students"*. Texas Southern University Research Week, Houston, Texas. April 2009.

Estes FG, Lal LS, Hayes BE. *"Descriptive Evaluation of a Collaborative Clinical Pharmacy Research Assistant Program for Pharmacy Students"*. American College of Clinical Pharmacy Annual Meeting, Louisville, Kentucky, October 2008. (P-246)

Estes F, Lal L, Brown J. *Medication Use Evaluation of Doxazosin in a County Hospital System*. ASHP Midyear Clinical Meeting, New Orleans, Louisiana. December 2003. (P-306E)

Estes FG, Robinson MD, Dunlop DD, *Assessment of Communication of Drug Formulary within a Healthcare System*, New Orleans, Louisiana. December 2003. (P-296E)

McIntyre D, Brown J, Estes F, Lal L. *Medication Use Evaluation for Procrit (Epoetin alpha) and Aranesp (Darbepoetin alpha) in a County Hospital Setting*. ASHP Midyear Clinical Meeting, New Orleans, Louisiana. December 2003. (Abstracted Accepted)

Estes FG, Lal LS, Brown JM, Henry AC. *A Retrospective Analysis of Adverse Drug Events in a County Hospital System*. ASHP Midyear Clinical Meeting, Atlanta, Georgia. December 2002. (Abstracted Accepted)

### **Oral Presentations**

Estes FG. "Accreditation Standards 2016 & Experiential Training". Texas Southern University, Fall Preceptor Conference, October 3, 2015.

Estes FG. "Experiential Curriculum Review – Current and Future Needs: An Overview: Introductory Pharmacy Practice Experience (IPPE). Texas Southern University. Texas Medical Center Council of Pharmacy Executives, July 6, 2011.

Estes FG. "Introductory Pharmacy Practice Experience Workshop. Texas Southern University College of Pharmacy and Health Sciences 2011 Summer Academy, July 5, 2011.

Estes FG. "Advance Pharmacy Practice Experience Orientation. Office of Experiential Program Review (Class of 2012). Texas Southern University, May 17, 2011.

Estes FG. "Using E\*Value – An Overview". Texas Southern University Office of Continuing Pharmacy Education. Preceptor Training, May 17, 2011

Estes FG. "Advance Pharmacy Practice Experience Orientation. Office of Experiential Program Review (Class of 2011). Texas Southern University, May 2010.

Estes FG. "Introductory Pharmacy Practice Experience (IPPE) – An Overview". Texas Southern University Office of Continuing Pharmacy Education Spring 2010 Annual Preceptor Conference, March 20, 2010.

Estes FG. "*Developing a Clinical Pharmacy Practice Student Research Program at Texas Southern University – COPHS*". Texas Southern University Research Week, March 31, 2009.

Estes, FG. "*Diabetes – Prevention and Self Care Management*". Third Annual Health & Social Justice Gathering – Getting Healthy-Getting Healthcare. Robert J. Terry Library Texas Southern University, April 2008.

Estes FG. "Developing a Clinical Pharmacy Practice Student Research Program at Texas Southern University – COPHS". Houston Center for Clinical Translational Science (HCCTS) New Investigator Symposium, May 21, 2007.

Estes FG. "*Be Inspired, Motivated, and Encouraged*" Keynote Speaker – Rho Chi Induction Ceremony. Texas Southern University. Sheraton Suites Galleria, Houston, Texas, February 24, 2007.

Estes FG. "*Preventive Medicine: Immunization; Programs and Protocol*". Texas Southern University. College of Pharmacy, Faculty and Staff, November 2006.

Estes FG. *Tamsulosin use in Urolithiasis*. GlaxoSmithKline. Research Triangle Park, North Carolina, September 2005.

Estes FG. "*The Importance of a Drug Information Residency*". Texas Southern University, Pre-Pharmacy, Pharmacy Orientation, April 2005

Estes FG "*Drug Information. An Overview for Pre-Health Professionals*". Texas Southern University, Pharmacy Applications, March 2005

Estes FG. Drug Literature Evaluation, "*Bosentan Therapy for Pulmonary Arterial Hypertension*". Texas Southern University, Drug Information, December 2002 and April 2003.

Estes FG. *Ethical Aspects of Drug Information Practice*. Texas Southern University, Drug Information. November 2002 and April 2003.

Estes FG. *Texas Southern University Drug Information Residency*. Texas Southern University. College of Pharmacy, Faculty and Staff, February 2003.

Estes FG. *The Importance of a Drug Information Residency*. Texas Southern University. February 2003.

Estes FG. *Personality Disorder/Eating Disorder*. Texas Southern University/Ben Taub NeuroPsychiatric Center, Psychiatric Clinical Clerkship. March 2002.

Estes FG. *Bipolar Disorder*. Texas Southern University/Ben Taub NeuroPsychiatric Center, Psychiatric Clinical Clerkship. March 2002.

Estes FG. *Topical Skin Preparations: Hydrocortisone*. Texas Southern University/Veterans Affairs Medical Center, Geriatric Clinical Clerkship. January 2002.

Estes FG. *Control Substance Accountability Procedures*. Spring Branch Medical Center. Pharmacy Department In-Service. November 2001.

Estes FG. *Defining the Consultant Pharmacy*, CarePharm Pharmacy. October 2001.

Estes FG. *Diabetes Mellitus (DM) and Insulin*, CarePharm Pharmacy. October 2001.

Estes FG. *Diabetes Mellitus (DM) and Oral Hypoglycemic Agents*. CarePharm Pharmacy. October 2001.

Estes FG. *“Economic Burden of Influenza-like Illness in Long-term Care Facilities”*. Article Review. CarePharm Pharmacy. September 2001.

Estes FG. *Diabetes & Insulin*. CarePharm Pharmacy. September 2001.

Estes FG. *Amlodipine (Norvasc)<sup>®</sup>*, Texas Southern University; Clinical Seminar. January 2000.

### **Commentary**

Tran-Yu D, Estes FG, Ebeid AM. VAN TV 52.1 – Health News, “Script Your Future. Medication Adherence Awareness Promotion”. October 2011.

Estes FG. KHOU Channel 11 – Health News, “Man says Wal-Mart pharmacy mistake nearly destroyed his life”. February 23, 2010.

Estes FG. KTRK Channel 13 - , Hurricane Ike. Dispensing of Emergency medications. September 2008

### **Committee Involvement**

American Academy of Colleges of Pharmacy (AACP) Experiential Education Sig, 2014  
Pharmacy Technician Advisory Committee of Houston Community College System, 2007-Present  
Texas Consortium on Experiential Programs (TCEP), 2009-Present  
Texas Pharmacy Congress (TPC), 2009-Present  
Texas Southern University Mentoring Committee (TSU)  
Exam Committee, Chair (COPHS)  
Curriculum Improvement Committee (COPHS)  
Handbook Revision Committee (COPHS)  
Continuing Education Committee (COPHS)  
Objective Structured Clinical Examination (OSCE) Committee (COPHS)  
Scholarship and Awards Committee (COPHS)

### **Research Grants**

Pediatric hypertension: who is keeping watch? Faculty Seed Grant, Texas Southern University; Principle Investigator, December 2013 to August 2014. Funded.

Assessment of factors influencing pharmacist’s interest in the pursuit of preceptorship. Faculty Seed Grant, Texas Southern University; Principle Investigator, September 2011 to May 2012. Unfunded.

Clinical Pharmacy Research Assistant (CPRA) Program. New Faculty Seed Grant, Texas Southern University; Principle Investigator, December 2007 to August 2008. Funded.

Minority Health Research and Education Grant Program, Education Pipeline Grant. TTUHSC in partnership with Texas Southern University and Amarillo College; TSU Pharmacy Practice Faculty Lead Coordinator, December 2007 to August 2009. Funded.

### **Professional Memberships**

Accreditation Council for Pharmacy Education (ACPE), Member  
American College of Clinical Pharmacy (ACCP), Member  
American Academy of Colleges of Pharmacy (AACCP), Member  
American Pharmaceutical Association (APhA), Member  
American Society of Health System Pharmacists (ASHP), Member  
Girl Scouts of America (San Jacinto Council), Member  
Lambda Kappa Sigma Professional Pharmacy Fraternity (LKS), Member  
Texas Pharmacy Association (TPA), Member

### **Honors / Awards**

Preceptor of the Year 2012-2013  
TSU College/School Teach of the Year 2007-2008 Candidate  
Rho Chi National Honors Society, Gamma Delta Chapter, Induction Ceremony Key Note Speaker  
SDS Scholarship Award  
Ulysses W. Watkins, Jr. Award  
Lester Scurlock Scholarship Award (Walgreen's Corporation)  
Excellence in Achievement Award for Post-Doctoral Training-Residencies or Fellowships  
Exemplary Academic Achievement, Fall 2001 (GPA 4.0)  
American Association of Colleges of Pharmacy (AACCP) Faculty Delegate, Chicago, IL. July 2008.  
Graduate Faculty Status

### **References**

Available upon request

## CURRICULUM VITAE

### PERSONAL DATA

NAME: Tyrone B. Felder

HOME ADDRESS: 9826 Riddlelink Lane  
Houston, Texas 77025

HOME PHONE: (713) 218-7665

DATE OF BIRTH: October 16, 1955

PLACE OF BIRTH: Jacksonville, Florida

WORK ADDRESS: College of Pharmacy and Health Sciences  
Texas Southern University  
3100 Cleburne Street  
Houston, Texas 77004

WORK PHONE: (713) 313-1894

### EDUCATION

1978 Bachelor of Science in Pharmacy  
Florida A & M University  
Tallahassee, FL

1985 Doctor of Philosophy  
Pharmaceutical Sciences  
University of Kentucky  
Lexington, KY

1986-1987 Postdoctoral Fellow  
University of Texas  
M.D. Anderson Cancer Hospital  
Houston, Texas

### ACADEMIC APPOINTMENTS

1988 Assistant Professor of Pharmaceutics  
College of Pharmacy and Health Sciences  
Texas Southern University  
Houston, Texas 77004

1993-1997	Adjunct Professor (Toxicology) UT Graduate School of Biomedical Sciences Houston, Texas
1994-Present	Associate Professor of Pharmaceutics College of Pharmacy and Health Sciences Texas Southern University Houston, Texas 77004
1999-2004	Assistant Dean for Student Services College of Pharmacy and Health Sciences Texas Southern University Houston, Texas 77004
2004-2009	Associate Dean for Academic Affairs (Interim) College of Pharmacy and Health Sciences Texas Southern University Houston, Texas 77004

**TEACHING EXPERIENCE**

**COURSES TAUGHT:**

Pharmacy Calculations (10 years)  
Basic Pharmacokinetics (20 years)  
Pharmacy Orientation (2 years)  
Pharmacotherapy (3 years)  
Dosage Formulations (3 years)

**ACADEMIC ADVISEMENT:**

Faculty advisor for all at risk pharmacy and pre-pharmacy students (2004-2009)

**AWARDS:**

Torch Award (1994);  
as 'Best Teacher'

Teacher of the Year (1995)  
Texas Southern University  
College of Pharmacy and Health Sciences

Torch Award (1996);  
as 'Best Teacher'

## RESEARCH AND SCHOLARSHIP

### Current Research Interests

1. Motivational factors as predictors of academic success in pharmacy education.

Student motivation is a student's desire to participate in the learning process. Motivation is a key to a student's success and is the driving force toward successful learning. There are two types of motivation, intrinsic and extrinsic. Intrinsic motivation is a student's desire to learn for the sake of learning. Extrinsic motivation has more to do with a student's desire to learn for the sake of reward (eg. grades, parental and/or teacher approval, etc.).

It is my belief that many students are not successful in the professional pharmacy program at Texas Southern University because they are not sufficiently motivated. These students may indeed possess the intellect and energy necessary to complete a Pharm.D. program in a timely manner. While performance measures such as PCAT scores and pre-pharmacy grades are valuable, they usually only provide an indication of what a student has been able to accomplish in less-demanding academic environments prior to admission to pharmacy school. The long hours of study, increased course load, higher costs of tuition, family obligations, etc. incurred by the typical pharmacy student can tax resources beyond expectations. Hence, the evaluation of motivational factors may provide an additional means of determining the potential for academic success of applicants to pharmacy school. In addition, it may be possible to increase the specific type of motivation(s) lacking in individual students.

### Grants (\* indicates funded grants)

- \*1. Title: Effect of Phenobarbital and 3-Methylcholanthrene on Bleomycin Metabolism in the Lung  
Amount funded: \$2,100.00  
Source of funds: Texas Southern University  
Project Period: 6/89 through 6/89
- \*2. Title: Pharmacokinetics of Anti-sickling Agents  
Amount funded: \$3000.00  
Source of funds: U.S. Department of Education  
Project Period: 6/89 through 8/89
3. Title: Chemically Induced Alterations in Pulmonary Metabolism  
Amount requested: \$281,809.00  
Source of funds: National Institutes of Health (MBRS)  
Date submitted: 10/89
4. Title: Dietary Components as Adjuvants in the Therapy of Colorectal Cancer  
Amount requested: \$9,901.00  
Source of funds: Pharmaceutical Manufacturers Association  
Date submitted: 8/90

5. Title: Drug-induced Alterations in Zidovudine Metabolism  
Amount requested: \$4990.00  
Source of funds: Texas Southern University  
Date submitted: 12/90
- \*6. Title: Drug-induced Modifications of Zidovudine Disposition in the Rat  
Amount funded: \$9,000.00  
Source of funds: The Association of Minority Health Professions Schools  
Project period: 1/91 through 12/91
7. Title: Antilipidemic Properties of Opuntia Species  
Amount requested: \$5000.00  
Source of funds: The Herb Society of America, Inc.  
Date submitted: 1/91
8. Title: Disposition-Related Toxicity of Lead and Platinum in the Kidney  
Amount requested: \$7,505.00  
Source of funds: U.S. Department of Energy  
Date submitted: 4/91
- \*9. Program: Research Centers in Minority Institutions (subproject)  
Amount funded: Approximately \$560,000 designated for Biochemical Pharmacology Cluster  
Source of funds: National Institutes of Health  
Project period: 9/91 through 8/94
10. Title: Pharmacologic Induction of Bleomycin Metabolism in the Lung  
Amount requested: \$73,562.00  
Source of funds: National Institutes of Health  
Date submitted: 6/91
11. Title: Renal Handling and Distribution of Antiviral Agents  
Amount requested: \$156,201.00  
Source of funds: Texas Higher Education Coordinating Board  
Date submitted: 7/91
- \* 12. Title: Minority School Faculty Development Award  
Amount funded: \$278,535.00  
Source of funds: National Institutes of Health  
Project period: 5/92 through 4/97
- \* 13. Title: Planning Grant for Aids Consortium Center  
Amount funded: \$16,976.00  
Source of funds: Association of Minority Health Professions Schools  
Project period: 3/94 through 2/95

### **Publications**

1. Gillespie, M.N., Felder, T.B., Blanford, S.L., Reinsel, C.N. and Kostenbauder, H.B. Pulmonary Disposition and Pharmacodynamics of Verapamil. *Journal of Cardiovascular Pharmacology*. 6:802-807, 1984
2. Felder, T.B., Legha, S., Shah, R. and Newman, R.A. Pharmacokinetics and Metabolism of Amonafide in Humans. *Drug Metabolism and Disposition*. 5:773-778, 1987.
3. Legha, S.S., Ring, S. Raber, M., Felder, T.B., Newman, R.A. and Krakoff, I.H. A Phase I Clinical Investigation of Benzisoquinolinedione. *Cancer Treatment Reports*. 71:1165-1169, 1987.
4. Paredes, J., Hong, W.K., Felder, T.B., Dimery, I.W., Choski, A.J., Newman, R.A., Castellanos, A.M., Robbins, K.T., et al. Prospective Randomized Trial of High-Dose Diethyldithiocarbamate in Recurrent and/or Metastatic Squamous Cell Carcinoma of the Head and Neck. *Journal of Clinical Oncology*. 6:955-962, 1988.
5. Umsawasdi, T., Felder, T.B., Jeffries, D. and Newman, R.A. Phase II Study of 4-demethoxydaunorubicin in Previously Untreated Extensive Disease Non-small Cell Lung Cancer. *Investigational New Drugs*. 8:S73-S78, 1990.
6. Enigbokan, M.A., Felder, T.B., Thompson, J.O., Kuti, J.O. and Ekpenyong, K.I. Hypoglycemic Effects of *Opuntia ficus-indica* Mill., *Opuntia lindheimeri* Engelm and *Opuntia robusta* Wendl. In Streptozotocin-induced Diabetic Rats. *Phytotherapy Research*. 10:379-382, 1995.
7. Ortiz, L., Yuan, L., Moroz, K., Hamilton, R., Felder, T.B., Holian, A. and Friedman, M. Bleomycin Induction of Apoptosis and Cytokine Secretion by Alveolar Macrophages May Contribute to Difference in Murine Strain Response to Bleomycin. Submitted for publication (1995).
8. Hamilton Jr., R.F., Li, L., Felder, T.B. and Holian, A. Bleomycin Induces Apoptosis in Human Alveolar Macrophages. *American Journal of Physiology; Lung, Cell and Molecular Physiology*. 13:L318-325, 1995.
9. John, J., Felder, T., Kizhakkekara, M., Abobo, C.V., and Liang, D. Oral Liquid Formulation of Etravirine for Enhanced Bioavailability. *Journal of Bioequivalence and Bioavailability*. Submitted for publication (March 2014).

### **Published Abstracts**

1. Felder, T.B., Gillespie, M.N., Blanford, S. and Kostenbauder, H.B. Pulmonary Disposition and Pharmacodynamics of Verapamil. Thirty-fifth National Meeting of the American Pharmaceutical Association-Academy of Pharmaceutical Sciences (1983).

2. Felder, T.B., Wassennan, K., Shah, R., Paredes, J., Hong, W.K. and Newman, R.A. The Effects of Diethyldithiocarbamate (DDTC) on Response, Toxicity, and Pharmacology of Cisplatin in Patients with Recurrent Squamous Cell Carcinoma of the Head and Neck. Fifth International Symposium on Platinum and Other Metal Coordination Compounds in Cancer Chemotherapy (1987).
3. Kramer, A., Paredes, J., Dimery, I., Felder, T., Newman, R. and Hong, W.K. The Effects of Diethyldithiocarbamate (DDTC) on Response, Toxicity, and Pharmacology of Cisplatin in Patients with Recurrent Squamous Cell Carcinoma of the Head and Neck. Fifth International Symposium on Platinum and Other Coordination Compounds in Cancer Chemotherapy (1987).
4. Umsawasdi, T., Felder, T.B., Dhingra, H.M., Lee, J.S., Glisson, B., Newman, R.A. and Hong, W.K. Phase II Study of Idarubicin in Extensive Non-small Cell Lung Cancer Patients. Seventy-Ninth Annual Meeting of the American Association for Cancer Research (1988).
5. Felder, T.B., Benvenuto, J.A., Andersson, B.S. and Newman, R.A. Disposition of Amonafide in Adults with Acute Leukemia. Seventy-Ninth Annual Meeting of the American Association for Cancer Research (1988).
6. Bhansali, K.G. and Felder, T.B. In Vitro Anti-HIV Activity of a New Phenoxazone Derivative. Annual Meeting of the American Society of Pharmacology and Experimental Therapeutics (1989).
7. Bates, T.R., Monk, C., Felder, T.B. and Griffm, M. Hydrolysis of Potential Anti-sickling Agents. Annual Meeting of the American Society of Hospital Pharmacists (1989).
8. Morris, C.M., Abobo, C.V. and Felder, T.B. Drug-induced Modifications of Zidovudine Disposition in the Rat. Annual Meeting of the American Society of Hospital Pharmacists (1991).
9. Holian, A., Hamilton, R.F., Kelley, K. and Felder, T. Bleomycin Activation of Human Alveolar Macrophages to Release Inflammatory Cytokines. Graduate Clinical Research Centers National Program Directors National Meeting (1992).
10. Felder, T., Ortiz, L., Hamilton, R.F., Kelley, K. and Holian, A. Murine Alveolar Macrophages Express Stress Protein 72 In Vivo in Response to Bleomycin at Doses That Do Not Stimulate Alveolar Macrophages. 1993 American Lung Association/American Thoracic Society International Conference (1993).
11. Maswoswe, J.J., Enigbokan, M., Felder, T., et. al. Appropriate Nutritional Assessment in Patients Prior to the Initiation of TPN in Four Different Hospitals: County, Government, Community, and Private. 28th Annual ASHP Midyear Clinical Meeting and Exhibits (1993).

12. Enigbokan, M.A., Felder, T.B., Kuti, J.O. and Ekpenyong, K.I. Effect of Routes of Administration on the Hypoglycemic Activities of Opuntia Species Extracts. International Congress of Traditional and Folk Medicine (1993).
13. Felder, T.B., Uthman. M., Kelley, K.J., Hamilton, R.F. and Holian, A. Bleomycin Activation of the Innune System in the Development of Lung Fibrosis. 1994 American Lung Association//American Thoracic Society International Conference (1994).

#### **MEMBERSHIP IN PHARMACY ORGANIZATIONS**

Phi Lambda Sigma (Faculty Advisor)  
Phi Delta Chi (Faculty Advisor)

#### **COMMITTEE ASSIGNMENTS**

Admissions and Academic Standards Committee (1998-2004)  
College of Pharmacy and Health Sciences  
Texas Southern University

University Curriculum Committee (2006-2010)  
Texas Southern University

Pharm.D. Curriculum Committee, Chair (2006-Present)  
College of Pharmacy and Health Sciences  
Texas Southern University

University Athletic Oversight Committee (2008-2010)  
Texas Southern University

University Commencement Committee (2009- Present)  
Texas Southern University

# Song Gao Ph.D.

Tel (office): (713)-313-7526, Email: [song.gao@tsu.edu](mailto:song.gao@tsu.edu)

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## **Research Interests:**

- Developing locally bioavailable drugs by manipulating their ADME properties.
- Developing preventive drugs against chemotherapy-induced GI toxicity by manipulating local detoxification.
- Bioanalysis of small molecules (e.g., drugs and metabolites) and large molecules (e.g., proteins such as drug metabolism enzymes and transporters) using LC-MS/MS.

## **Active Research Grants:**

1. 1R03CA212937-01 (NIH), Role: **PI**. Total Budget, \$150, 500. [Jan, 2017- Dec, 2019](#).  
Developing Recycled Colon Bioavailable (r-CB) COXIBs for the Treatment of Familial adenomatous polyposis (FAP).
2. 1R15GM126475-01A1 (NIH), Role: **PI**. Total budget, \$472,250. [Sep 2018-Aug 2021](#).  
Developing Locally Bioavailable Drugs to Inhibit the Aberrantly Elevated PGE2 in the Colon.
3. Core facility support award (CPRIT), Role: **Co-investigator**, Total budget, \$5,106,420. [Oct 2018-Sep 2023](#). (PI, Dr. Dong Liang).  
GCC Center for Comprehensive PK/PD and Formulation.

## **Education:**

- B.S. in Pharmacy, Shandong University, Jinan, China, 09/1992-07/1996
- Ph.D. in Medicinal Chemistry, Peking Union Medical College, Beijing, China 09/1999-07/2004
- Postdoctoral fellow, The University of Houston (11/2007-07/2011)
- Postdoctoral fellow, The University of Arizona (10/2005-10/2007)
- Postdoctoral fellow, Arizona State University (10/2004-09/2005)

## **Academic Appointments:**

- Assistant Professor (Tenure track), Texas Southern University (Sep 2017-present)
- Assistant Professor (Research track), the University of Houston (08/2011-06/2013, 03/2014-Aug 2017)
- Senior Research Scientist, MD Anderson Cancer Center, The University of Texas (06/2013-02/2014)

## **Teaching and advising experience:**

- Pharm. D. Courses:
  - ✓ PHAR 433 Pharmaceutics I/ Pharmacy Calculations
  - ✓ PHAR 413 Pharmaceutics I/ Pharmacy Calculations Laboratory
  - ✓ PHAR 434 Pharmaceutics II Dosage Forms
  - ✓ PHAR 414 Pharmaceutics II Dosage Form Laboratory (Coordinator)
- Ph.D. Courses:
  - ✓ PHS 810 Physical Pharmacy (Coordinator)
  - ✓ PHS 904, Genetics and Pharmacogenomics,
  - ✓ PHS 801-01, Biostatistics
  - ✓ PCEU 6342 Advanced Pharmaceutics I: Physical pharmacy and pre-formulation (PPS, UH)
  - ✓ PCEU 7350/7351 Laboratory Methods for Pharmaceutical Research I and II (PPS, UH)
- Graduate students advising:
  - Committee chair: Christabel Ebuzoeme (Second year graduate student at TSU)
  - Robin Sunsong (Second year graduate student at TSU)

## Song Gao Ph.D.

Tel (office): (713)-313-7526, Email: song.gao@tsu.edu

---

Committee member: Jian Zhou, Henrietta Abodakp, Li Li, Dinh Bui, Lu Wang, Ololade Awoosemo, and Fadia Boughaba

### Research experiences:

- The University of Houston/Texas Southern University, 2008-2012/2013-present.
  - ❖ Developing recycled locally bioavailable COX-2 inhibitors.
  - ❖ Alleviating irinotecan's intestinal toxicity using herbal medicine based on the understanding of enterohepatic recycling.
  - ❖ Absorption and metabolism of active components in herbal medicines.
- MD Anderson Cancer Center, 2012-2013,
  - ❖ Establishing LC-MS based metabolomic platforms for early detection of lung cancer.
- The University of Arizona and the Arizona State University, 2004-2007,
  - ❖ Identification of active natural product from herbal medicine.

### College committees (TSU):

2017-present, Assessment, evaluation and improvement committee

2017-present, Professionalism and Relationships Committee.

### National Awards:

Science and Technology Advancement Award, issued by the Ministry of Education of People's Republic of China, 2010.

### Patents:

1. Wenfei He, **Song Gao**, Kexin Huang, Faqing Ye, Xiaomin Yu, Jianchun Pan, Xiaokun Li, Suixu Xu, Preparation of total sennoside from leaf of *Folium sennae*, Chinese Patent number: 2005 1 0047390.9.
2. Shishan Yu, Xiaoguang Chen, Xueshi Huang, Yan Li, **Song Gao**, Qi Gao, Youcai Hu, Yan Ding, Yueying Zhen, "Desoxytylophorinine, its preparation method, medicinal composite and application in tumor therapy", Chinese Patent number: 200610076298.
3. Ming Hu, Yong Ma, **Song Gao**, Locally bioavailable Drug, US Patent Application number: 62149931, EFS ID: 22110519.

### Publications:

#### • Corresponding author:

1. Rongjin Sun, Sumit Basu, Min Zeng, Robin Sunsong, Li Li, Romi Ghose, Wei Wang, Zhongqiu Liu, Ming Hu, and **Song Gao\***. Xiao-Chai-Hu-Tang (XCHT) Intervening Irinotecan's Disposition: The Potential of XCHT in Alleviating Irinotecan-Induced Diarrhea, *Current Cancer Drug Targets*, 2019, 19, 1-10.
2. Chenning Zhang, Caibin Qin, Guangyi Yang, Fadia Boughaba, Yue He, Weidong Ma, Yonghong Zhang, **Song Gao\***, Developing an UPLC-MS/MS method to quantify maoecrystal A in rat plasma: Application to a pharmacokinetic study, *J Chromatogr B Analyt Technol Biomed Life Sci*. 2018 Jun 1;1086:105-109. PMID: 29660663.
3. Guangyi Yang, Chenning Zhang, Pei Hu, Ming Hu, **Song Gao\***, An UPLC-MS/MS method for quantifying tetrandrine and its metabolite berbamine in human blood: Application to a human pharmacokinetic study, *J Chromatogr B Analyt Technol Biomed Life Sci*. 2017 Dec 1;1070:92-96, PMID:29100757.
4. Guangyi Yang, Wei Lu, Meng Pan, Chenning Zhang, Yuan Zhou, Pei Hu, Ming Hu, **Song Gao\***, An LC-MS/MS method for simultaneous determination of nine steroidal saponins from Paris

## Song Gao Ph.D.

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---

- polyphylla var. in rat plasma and its application to pharmacokinetic study, *J Pharm Biomed Anal.* 2017 Oct 25; 145:675-681, PMID: 28802242.
5. Taijun Yin, Guangyi Yang, Yong Ma, Beibei Xu, Ming You, Ming Hu, **Song Gao\***, Developing an activity and absorption-based quality control platform for Chinese traditional medicine: Application to Zeng-Sheng-Ping, *J Ethnopharmacol.* 2015, 172; 195-201. PMID: 26099633.
  6. **Song Gao\***, Jing Zhao, Taijun Yin, Yong Ma, Beibei Xu, Anthony N. Moore, Pramod K. Dash, and Ming Hu, *J Chromatogr B Analyt Technol Biomed Life Sci.* 2015 Feb 7;986-987C:54-59. PMID: 25706567.
  7. Rongjin Sun, Min Zeng, Ting Du, Li Li, Guangyi Yang, Ming Hu, **Song Gao\***, Simultaneous determinations of 17 marker compounds in Xiao-Chai-Hu-Tang by LC-MS/MS: Application to its pharmacokinetic studies in mice. *J Chromatogr B Analyt Technol Biomed Life Sci.* 2015 Oct 15; 1003:12-21. PMID: 26397748.
  8. **Song Gao\***, Taijun Yin, Beibei Xu, Yong Ma, Ming Hu, Amino acid facilitates absorption of copper in the Caco-2 cell culture model, *Life Sciences*, 2014; 25;109(1):50-6, PMID: 24931904.
  9. Beibei Xu, Guangyi Yang, Shufan Ge, Taijun Yin, Ming Hu, and **Song Gao\***, Validated LC-MS/MS method for the determination of 3-hydroxyflavone and its glucuronide in blood and bioequivalent buffers: application to pharmacokinetic, absorption, and metabolism studies, *Journal of Pharmaceutical and Biomedical Analysis.* 2013; 85:245-252, PMID: 23973631.
- **First author:**
10. **Song Gao**, Sumit Basu, Guangyi Yang, and Ming Hu, Oral Bioavailability Challenges of Natural Products Used in Cancer Chemoprevention, *Progress in Chemistry*, 2013; 25: 1553-1574.
  11. **Song Gao**, Sumit Basu, Zhen Yang, Arijita Deb, Ming Hu, Bioavailability Challenges Associated with Development of Saponins as Therapeutic and Chemopreventive Agents, *Curr Drug Targets.* 2012;13(14):1885-99. 2012, PMID: 23140297.
  12. **Song Gao**, Yaming Xu, Frederick A. Valeriote, A. A. Leslie Gunatilaka Pierreionis A-D, Solid Tumor Selective Pyranisoflavones and Other Cytotoxic Constituents from *Antheroporum pierreii*, *Journal of natural products.* 74(4): 852-856, 2011, PMID: 21452840.
  13. **Song Gao**, Zhen Yang, Taijun Yin, Ming You, and Ming Hu, Validated LC-MS/MS method for the determination of maackiain and its sulfate and glucuronide in blood: Application to pharmacokinetic and disposition studies. *Journal of Pharmaceutical and Biomedical Analysis*, 2011; 55:288-293, PMID: 21349678.
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## Song Gao Ph.D.

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19. **Song Gao**, Nan Feng, Shishan Yu, Dequan Yu, and Xiaoliang Wang. Vasodilator phloroglucinols and flavanols from *Lysidice rhodostega* Hance, *Planta Medica*. 2004; 70: 1128-1134. PMID: 15643545.
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- **Co-author:**
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- anticancer metabolite of red ginseng extract produced by gut microflora, *Drug Metab Dispos.* 2012; 40:1538-44 PMID: 22584255.
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57. Xianfu Wu, Youcai Hu, **Song Gao**, Shishan Yu, Yuehu Pei, Wenzhao Tang, and Xiangzhong Huang, Two new compounds from the roots of *Lysidice rhodostegia*. *J of Asian Natural Products Research*. 2007, 9, 471-477, PMID: 17701568.
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59. Gunagmiao Fu, Yinghong Wang, **Song Gao**, Meijun Tang, and Shishan Yu. Five new cytotoxic triterpenoid saponins from the roots of *Symplocos chinensis*, *Planta Medica*. 2005;71: 666-672. PMID: 16041654.
60. Lijie Cui, Zeper Abliz, Min Xia, Liyan Zhao, **Song Gao**, Wenyi He, Yun Xiang, Feng Liang and Shishan Yu. On-line identification of phenanthroindolizidine alkaloids in a crude extract from *Tylophora atrofolliculata* by liquid chromatography combined with tandem mass spectrometry, *Rapid Communications in Mass Spectrometry*. 18: 184-190, 2004. PMID: 14745768.
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62. Meijun Tang, Diandian Shen, Youcai Hu, **Song Gao**, and Shishan Yu. Cytotoxic Triterpenoid Saponins from *Symplocos chinensis*, *J Natural Products*. 67:1969-1974, 2004. PMID: 15620235
63. Xueshi Huang, **Song Gao**, Lihua Fan, Shishan Yu, Xiaotian Liang, Studies on Chemical Constituents from the Flower of *Tylophora atrofolliculata* Metc. *China J of Chinese Materia Medica*. 295:1108-1109, 2004

### Conference Presentations:

1. The Role of Breast Cancer Resistance Protein (BCRP) in Disposition of Phenolics via Glucuronidation, AAPS annual meeting, Orlando, FL, 2015.
2. An UPLC-MS Fingerprint Method to Characterize the *Prunella Vulgaris*, AAPS annual meeting, Chicago, IL, 2012.
3. Validated UPLC-MS/MS fingerprint method for ginseng characterization: application to its absorption study, AAPS annual meeting, San Francisco, CA, 2011.

### Invited Talks:

1. Impact of microflora on the activity and bioavailability of herbal medicine, Guangzhou, China, 12/2017.
2. Developing recycled locally bioavailable drug for the treatment of chronic diseases in the colon, Guangzhou University of Chinese Medicine, China. 11/2015
3. Lung cancer chemoprevention with Anti-tumor B (ATB), Macau University of Science and Technology, Macau, 11/2011.

# Kiydra J. Harris, PharmD

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An empathetic and intuitive pharmacist with unique community and global pharmacy experience passionate about serving the community as an educator and proficient clinician through the use of public health strategies and medication therapy/disease state management techniques in order to provide comprehensive quality care to those in need.

## **EDUCATION**

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**Florida Agricultural & Mechanical University** May 2015  
**College of Pharmacy and Pharmaceutical Sciences**  
Tallahassee, FL  
Doctor of Pharmacy - *Magna Cum Laude*

## **LICENSURES AND CERTIFICATIONS**

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**Cardiopulmonary Resuscitation/Basic Life Support for  
Healthcare Professionals-American Heart Association** 2014-Present

**APhA Pharmacy-Based Immunization Delivery** 2017-Present

**Texas Board of Pharmacy**  
Registered Pharmacist 2015-Present  
License #: 57444

**Accreditation Council for Pharmacy Education** 2015  
Medication Therapy Management Certification

**Texas Southern University College of Pharmacy & Health Sciences** 2015  
Certificate of Teaching for Health Professions

## **PROFESSIONAL EXPERIENCE**

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**Ernest Mario School of Pharmacy, Rutgers University** **Africa/Princeton, NJ**  
**PGY2 Public Health Resident,** 2016-2017  
**Bristol-Myers Squibb Foundation, Inc.**

*As a public health resident, I was responsible for promoting health equity and improving the health outcomes of populations disproportionately affected by serious diseases and conditions, by fostering meaningful relationships and offering technical expertise to strengthen community based health care worker capacity, integrate medical care and community-based supportive services, and mobilize communities in the fight against disease.*

- Maintained clinical expertise on relevant disease state knowledge, treatment guidelines, patient treatment trends, and scientific activities in therapeutic areas of interest such as oncology, cardiology, infectious diseases, and chronic diseases
- Developed creative and innovative strategies for addressing the specific needs of key partners
- Identified, established and maintained relationships with thought leaders and external stakeholders in the field of oncology and infectious diseases in support of key BMSF initiatives
- Empowered healthcare workers, patients, and communities to take control of health and medication related issues
- Supported global and country teams to plan and implement foundation grant projects including annual work plan, budget planning and monitoring, and data monitoring
- Led review and assessment of proposal plans for new grants focused on HIV/AIDS, cervical/breast/lung cancer, and/or chronic diseases
- Developed executive summaries and provided recommendations of prospective grantee proposal plans for presentation to Foundation president and advisory committee
- Evaluated and edited grantee progress reports for multiyear sub-Saharan Africa and US based grants
- Collaborated in the development of systematic reviews, including examination of the scope of practice, outreach services, and intervention and prevention plans, in regards to the lung cancer and “growing and aging with HIV/AIDS” epidemic in sub-Saharan Africa
- Performed needs assessment of grantee sites and organizations to determine areas of focus for technical expertise
- Spearheaded the publication development of ongoing studies, information gathering, and content development for 2017 grantees to showcase its best practices and community effort through articles and presentations
- Provided clinical expertise through disease state management, medication therapy management, and medication education material creation for healthcare workers and patients regarding drug-drug interactions with HIV, TB, and chronic diseases
- Created pharmacy policy and procedures protocol for St. Kizito In-Patient Pharmacy Services (Mikumi, Tanzania)
- Facilitated and increased patient engagement in Pink Ribbon Red Ribbon initiative in Tanzania (Mbeya HIV/AIDS Network and St. Kizito Hospital) leading to increased awareness and education of cervical and breast cancer
- Developed and revised medical education information and communication materials for Helen Joseph Breast Cancer Clinic (Johannesburg, South Africa)
- Reviewed and assessed proposed Hepatitis B and C Guidelines for sub-Saharan Africa with the Gastroenterology Foundation of South Africa (Addis Ababa, Ethiopia)
- Developed research regarding access of health information related to breast and cervical cancer in Johannesburg, Durban, Mikumi, Mbeya, Lesotho, and Addis Ababa
- Developed and assisted with implementation of classroom/curriculum restructure and clinical experiences at the National University of Lesotho College of Pharmacy (Roma, Lesotho)
- Researched pan-oncology areas and provided in depth technical expertise/insights for Specialty Care for Vulnerable Populations® initiative for future programming strategy

- Facilitated ongoing Project ECHO-telehealth- International Replication in a local African hospital (Kimberly Hospital-Northern Cape, South Africa) for oncology specialist development

**Texas Southern University PGY-1  
Community Pharmacy Resident  
Director: Dr. Nora Osemene**

**Houston, TX  
2015-2016**

*As a Community Pharmacy Resident, I was responsible for applying advanced practice skills to provide quality patient care in the community, developing, implementing, and sustaining enhanced pharmacist-provided patient care services, and participating in leadership strategies to facilitate the process of practice and professional improvement through education and mentorship.*

**Experiences included: Academia (Texas Southern University), Administration (Memorial Hermann-Katy Hospital & San Jose Clinic), Anticoagulation/Geriatrics (Michael E. Debakey V.A. Medical Center), Oncology (Memorial Hermann Hospital Oncology Suite-Texas Medical Center), Patient Care and Patient learning (San Jose Clinic), Practice Management and Medication Distribution (San Jose Clinic), and Patient Provider Education (San Jose Clinic)**

- Provided drug information and medical device consultations to providers, medical staff, and patients to enhance support services and patient adherence
- Provided clinical services (INR monitoring and dosage adjustment) for the outpatient monitoring of patients on anticoagulation therapy and follow-up on behalf of the primary care providers (San Jose Clinic and Micheal E. Debakey V.A. Medical Center)
- Provided verbal education and training (medication use demonstration for insulin use, glucose testing, inhaler use, etc) designed to enhance patient understanding and appropriate use of his/her medications
- Lead coordination of the Patient Assistance Program within the San Jose Clinic Pharmacy through liaising with primary care providers, monitoring progress of individual patient cases, and maintaining key metrics and documentation for clinic use
- Ensured patients medication-related health needs were met through a collaborative, patient-centered approach
- Performed and obtained necessary assessments of the patient's health status via appropriate vitals and questionnaires
- Led one-on-one medication therapy management and disease state management sessions focused on helping improve patient outcomes with chronic diseases
- Selected, initiated, modified, or administered medication therapy within scope of practice during disease state management visits under collaborative practice agreement protocols with patient's PCPs
- Performed comprehensive medication profile reviews to identify, resolve, and prevent medication-related problems including adverse events
- Documented delivered care and communicated essential information to patient's other primary care providers
- Made interventions on inappropriate medications utilizing the BEERs criteria list and disease state/adverse effect profile consideration

- Consistently conducted in-service presentations to update providers and medical staff on safe and effective use of medications
- Participated on oncology interdisciplinary medical teams and ensured safety and appropriateness of chemotherapy regimens
- Delivered educational presentations in pharmacy practice labs and classroom lectures to 60+ students
- Precepted and provided clinical advice to PharmD IPPE and APPE students
- Engaged in academia faculty meetings, academia lecture planning, and student organization events as a panelist
- Gained proficiency in the operating systems of Pharmaserve and Sevocity
- Developed and implemented medication safety measures that drove initiatives across service lines in a multidisciplinary setting
- Maintained and managed work flow as clinic staff pharmacist
- Served as the Pharmacy Representative on the Performance Improvement Committee within San Jose Clinic
- Created and distributed a quarterly pharmacy newsletter for San Jose Clinic

## RESEARCH EXPERIENCE

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<p><i>Lung Cancer in Sub-saharan Africa</i>          Bristol-Myers Squibb Foundation          Request for Proposals Application Development</p>	2016
<p><i>Growing and Aging with HIV/AIDS in Sub-saharan Africa</i>          Bristol-Myers Squibb Foundation          Request for Proposals Application Development</p>	2016
<p><i>Experience with Ibrance (palbociclib) at the UT Health          Memorial Hermann Cancer Center</i>          Principal Investigator          The 50<sup>th</sup> ASHP Midyear Clinical Meeting &amp; Exhibition          New Orleans, LA</p>	2015
<p><i>Stimulated Patient Scenario for Direct-to-Consumer          Sale of Drugs</i>          Co-investigator          The 49<sup>th</sup> ASHp Midyear Clinical Meeting &amp;          Exhibition Anaheim, CA</p>	2014

## PRESENTATIONS

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<i>Transform Your Career and Community Through Impactful Leadership</i> Pharmacy Leadership Society Florida A&M University Tallahassee, FL	<i>April 2018</i>
Defining the Niche of a Corporate Foundation in the Pharmaceutical Industry Rutgers Fellowship Seminar Rutgers University Piscataway, NJ	May 2017
<i>Cancer Statistics in The African American Community</i> Bristol-Myers Squibb BOLD & US Advocacy Event Lawrence Township, NJ	<i>April 2017</i>
<i>Dyslipidemia</i> Clinical Pharmacy National University of Lesotho Roma, Lesotho	<i>November 2016</i>
<i>Diabetes</i> Clinical Pharmacy National University of Lesotho Roma, Lesotho	<i>November 2016</i>
<i>Tumor Lysis Syndrome</i> Infectious Diseases, Oncology, and Immunologic Pharmacotherapy Lecture Texas Southern University Houston, TX	November 2015
<i>Angiotensin-Nepriylisin Inhibition vs. Enalapril in Heart Failure</i> Journal Club Presentation San Jose Clinic Houston, TX	October 2016
<i>Perioperative Bridging Anticoagulation in Patients with Atrial Fibrillation</i> Journal Club Presentation Michael E. Debakey VAMC Houston, TX	September 2015
<i>Medication Therapy Management vs. Disease State Management</i> Medical and Pharmacy In-Service San Jose Clinic	August 2015

Houston, TX

## **PEER-REVIEWED PUBLICATIONS AND ABSTRACTS**

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- **Harris K.** Learning and Living through my V.I.S.A. *Rutgers Pharmaceutical Industry Fellowship Chronicles*. New Brunswick, NJ. 2016:e3.
- **Harris K.** Learning and Living through my V.I.S.A. *Rutgers Pharmaceutical Industry Fellowship Chronicles*. New Brunswick, NJ. 2016:e4.
- **Harris K.** Defining the Niche of a Corporate Foundation in Public Health. Bristol-Myers Squibb Poster Symposium. April 2017; Lawrence Township, NJ.
- Seal, D., Jackson, S., **Harris, K.**, Brooks, J., Haskell, A., & Ransom, R. (2016 February 17). Direct-to-Consumer Sale of the Prescription Drugs by Pharmaceutical Companies: An Assessment of Patient Experience. *Sage: Journal of Pharmacy Technology*, 32(3), 98-103. Doi: 10.1177/8755122515627361

## **AWARDS/HONORS**

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U.S.A. President's Volunteer Service Award  
(President Barack Obama)

2016

# AMANDA JOYCE HENRY, M.S.

## EDUCATION

Texas Southern University (T.S.U.), Houston, Texas

### **Master of Science-Biology (with an emphasis in Microbiology) 2013**

Thesis: "Characterization of *Yersinia pseudotuberculosis* Abiotic Stress Response"

G.P.A. 3.51/4.0

California State University, San Bernardino, California

### **Certification- Business Entrepreneurship (24 M.B.A. credits) 2007**

3.7/4.0

Texas Southern University, Houston, Texas

### **Bachelor of Science Biology 2006**

3.1/4.0

## SELECTED AWARDS

- **N.A.S.A.-Center for Bio-nanotechnology & Environment Research Fellow (CBER) - Fellow**
  - **January 2009- May 2009**
- Texas Public Education Grant- Recipient
  - August 2008- May 2009
- Integrated Technology Transfer Network (I.T.T.N) Fellow- funded by the Army Research Lab- Fellow
  - August 2006 - August 2007
- President's University Scholarship
  - August 2005- May 2006
- Louis Stokes Alliance for Minority Participation (L.S.A.M.P.) funded by N.S.F. - Scholar
  - August 2002- August 2005

## TEACHING EXPERIENCE

- **Visiting Assistant Professor-Texas Southern University- College of Pharmacy & Health Sciences Spring 2015-present**
- Adjunct Professor- Houston Community College- Coleman Campus- Fall 2014- present
- Pearland Independent School District, Pearland, Texas 2013; Substitute Teacher
- Graduate Teaching Assistant- General Biology & Microbiology Laboratories (pre-health professional students) (T.S.U.) 2011-2012
- Graduate Student Tutor 2011

## ADDITIONAL SUBSTITUTE TEACHING EXPERIENCE 2013-214; 2007-2008; 2005

Pearland & Fort Bend Independent School Districts; Aldine I.S.D. & Port Arthur I.S.D.

## FURTHER SCIENTIFIC EXPERIENCE

- **National Society of Black Engineers(NSBE)- Summer Engineering Experience for Kids (S.E.E.K.)- Summer 2014**
  - Worked with a group of 50 mentors to instruct and manage a classroom of elementary students
  - Taught and guided students with a variety of hands-on engineering toys with curriculum provided by various educational curriculum companies and corporate sponsors
  - Explained general science, mathematics, & engineering concepts to 30 students ages 10-11
- Texas Commission on Environmental Quality - Natural Resource Specialist/Technical Writer 2008-2011
  - Research non-compliance allegations in accordance with state and federal (E.P.A.) public drinking water codes

- Develop routine case documents based on investigation documentation
- Prepare penalty calculations (result in fine collection), compliance letters, memos, agreed orders, technical requirements to come into compliance in accordance with state/federal standards

### **PUBLICATIONS AND PAPERS**

Henry, Amanda *et al.* (2012) *The Yersinia pseudotuberculosis Degradosome is not Required for all Stress Responses* FEMS Microbiol Lett 336:139-147.

Henry, Amanda. (2014). *How to navigate the real driver behind the STEM gap.* eCampusnews. Web. 29 Oct 2014

### **MEMBERSHIPS**

- TSU National Alumni Association- Life Member & College of Science Technology Chapter- V.P. of Membership
- National Society of Black Engineers (NSBE)
- National Black Data Processing Associates
- Alpha Kappa Alpha Sorority, Inc.

### **COMMUNITY SERVICE**

- **Universal Elite Aerospace {501-C3} Board Advisor January 2015- present**
- Cypress-Fairbanks Independent School District Young Men for Positive Action (YMPA) and Young Ladies for Positive Action Leadership Conference “Social Media Mindfulness” Workshop Presenter- February 2015
- STEM-ulate Your Mind- Port Arthur Alumni Group – January 2015
- Wheeler Avenue Baptist Church Youth & College Ministry Member 2014-present
- “College For A Day: STEM-ulating the Next Generation of Creative STEM Professionals and Community Leaders” –April 2013
- Collegiate 100 Black Men- Texas Southern University- “The State of the Black College Student- Panel Discussion” Fall 2013

### **LEADERSHIP ROLES (Undergraduate)**

- Lead Office Assistant to the Associate Provost for Research 2005-2006
  - Trained two student workers to perform complex administrative and secretarial duties requiring superior judgment and strong analytical skills
- Student Government Association Election Commissioner 2004-2006
  - Organized, planned, & executed semester campus elections
  - Managed, Trained, and lead 10 student election commissioners
  - Successfully registered 10,000 Houstonians registered vote (Project 10K S.G.A. President initiative) 2005-2006
- Alpha Kappa Alpha Sorority, Inc.-Gamma Psi Chapter
  - Parliamentarian (1<sup>st</sup> new initiate to serve on the Chapter’s Executive Board) 2004-2005
  - Sergeant-At-Arms 2005-2006
  - Co-Chair of the Health Committee
- Homecoming Subcommittee chair person 2005-2006

### **REFERENCES**

- Shishir Shisodia, Ph. D., Associate Professor and Interim Associate Dean  
Texas Southern University; Phone: 713-313-7912 Email: shishodias@tsu.edu
- Desire Jackson, Ph.D., Associate Professor and Assistant Dean  
Texas Southern University; Phone: 713-313-7778 Email: [jackson\\_ja@tsu.edu](mailto:jackson_ja@tsu.edu)
- Michelle Tolbert, M.B. A., Program Coordinator  
Louis Stokes Alliance for Minority Participation, Campus Texas Southern University  
Phone 713-313-4278 Email: tolbert\_ym@tsu.edu

## CURRICULUM VITAE

**NAME:**

Rodney J. Hunter, PharmD, BCOP

**COLLEGE:**

Assistant Professor (Oncology), Texas Southern University College of Pharmacy and Health Sciences, Houston, TX

**DEPARTMENT:**

Pharmacy Practice and Clinical Health Sciences

**SECONDARY APPOINTMENTS:**

Clinical Pharmacy Specialist (Oncology), University of Texas Health/Memorial Hermann Cancer Center, Houston, TX

Project Director, Texas Southern University Breast Cancer Screening and Prevention Center (funded by Susan G. Komen Houston Affiliate)

Clinical Assistant Professor, University of Texas McGovern Medical School, Houston, TX

Project Director, ASHP- Accredited Community Pharmacy Residency, Texas Southern University College of Pharmacy and Health Sciences, Houston, TX

**CREDENTIALS****Certification:**

Texas State Board of Pharmacy Preceptor Certificate, 2008 –Present

**Licensure:**

Active

Texas State Board of Pharmacy (#45462), 2007

**Certifications:**

Board of Pharmacy Specialties, Board Certified Oncology Pharmacist, December 2012  
Anticoagulation Therapy Management Certificate Program, University of Southern Indiana, October 2008

University of Houston Certificate of Academia, July 2008

The UT M.D. Anderson Cancer Center Sterile Products Certification, August 2007

**TERMINAL DEGREE:**

Yes

**SCHOOLS ATTENDED:**

Tarrant County College, 08/2000 – 07/2002  
Texas Southern University, 08/2002 – 05/2007  
University of Texas MD Anderson Cancer Center, 07/2007 – 07/2010

**DEGREES EARNED:**

Doctorate of Pharmacy, Texas Southern University, 05/2007

**SPECIAL TRAINING PROGRAMS:**

Oncology Fellowship, University of Texas MD Anderson Cancer Center, 07/2010

**FIELDS OF INTEREST:**

Oncology, Chemotherapy dosing in special populations, Pharmacogenomics,  
Supportive care in Oncology, Targeted therapy in Oncology

**PROFESSIONAL EMPLOYMENT**

Memorial Hermann Texas Medical Center, Houston, TX

University of Texas McGovern Medical School, Houston, TX

**CONSULTANCIES AND PROFESSIONAL SERVICES**

Advisory Board Member, Eli Lilly (Breast Medical Oncology), 2018 - Present  
Advisory Board Member, Novartis Pharmaceutical (Breast Medical Oncology), 2017 - Present  
Advisory Board Member, TEVA Pharmaceutical (Oncology), 2016 - Present  
Speakers Bureau, Pfizer (Oncology), 2014 - Present  
Speaker's Bureau, Bristol Myers Squibb (Hepatology/Infectious Diseases), 2014  
Speakers Bureau, AbbVie, 2013 – 2014  
Clinical Pharmacy Consultant, Clinical Research Review Committee (University of Texas McGovern Medical School), 2012 - Present  
Speakers Bureau, Novartis (Oncology), 2012 - 2015  
Speakers Bureau, Abbott Laboratories, 2010 – 2012

**FELLOWSHIPS AND HONORS**

Who's Who in Pharmacy Higher Education, 2014

Texas Southern University/University of Houston Student Society of Health-System Pharmacists Seminar, Keynote Speaker, Houston Texas, October 2008

First Place Award, Research Week, Texas Southern University: Student Poster Presentations, March 2005

**AWARDS AND PRIZES**

Preceptor of the Year, Texas Southern University College of Pharmacy and Health Sciences, May 2018

McCleary Teaching Excellence Award (Provost's Faculty Excellence Award), Texas Southern University, May 2018

First Place Award (Mentor), Research Week, Texas Southern University: Student Poster Presentations, March 2017 (Jessie Harris, Demi Chan, Nirmal Koruthu, Brandy Wilkerson)

Preceptor of the Year, Texas Southern University College of Pharmacy and Health Sciences, May 2016

Chapter of the Year, Kappa Psi Pharmaceutical Fraternity, Inc., April 2014

Excellence in Achievement Award, Texas Southern University College of Pharmacy & Health Sciences, May 2007

Lorenzo E. Kelly Memorial Award, Texas Southern University College of Pharmacy & Health Sciences, May 2007

Teva Pharmaceuticals Outstanding Student Award, Texas Southern University College of Pharmacy & Health Sciences, May 2007

Pharmacy Scholarship, Texas Southern College of Pharmacy & Health Sciences, June 2007

Patrick R. Wells Scholarship, Texas Southern University College of Pharmacy & Health Sciences, May 2007

Phi Lambda Sigma Leadership Society, Alpha Pi Chapter at Texas Southern University, College of Pharmacy & Health Sciences, April 2006

William B. Harrell Scholarship, Texas Southern University College of Pharmacy & Health Sciences, May 2005

Rho Chi National Honor Society, Gamma Delta Chapter at Texas Southern University, College of Pharmacy & Health Sciences, October 2005

CVS Pharmacy Scholarship, Texas Southern University College of Pharmacy, & Health Sciences, May 2004

Outstanding Performance Award in Summer Academy (Pharmaceutical Calculations), Texas Southern University College of Pharmacy, & Health Sciences, August 2003

Who's Who among American College Students, June 2001

## GRANTS

Susan G. Komen, 04/01/2018-03/31/2019, \$50,000 amount, Funded and Active, Project Director

NIH-RCMI, 2018-2019, amount, \$11,000,000, not funded, Dr. Xie (Collaborator)

Susan G. Komen, 04/01/2014-3/31/2015, \$60,000, not funded, principal investigator

NIH-RCMI, dates, amount, not funded, not principal investigator

NIH-RCMI, dates, amount, not funded, not principal investigator

## SCHLOARSHIP

### Publications in Peer-Reviewed Journals:

Mach CM, Lapp EA, Weddle KJ, **Hunter RJ**, Burns KA, Parker C, Brown J, Smith JA. Adjunct Histamine Blocker as Premedications to Prevent Carboplatin Hypersensitivity Reactions. *Pharmacotherapy*, May 2016;36(5):482-7.

Dunnington H, **Hunter R**, Frumovitz M, Smith JA. Granisetron transdermal patch for the treatment of nausea in patients undergoing cisplatin based chemotherapy for cervical cancer. *Journal of Cancer Therapy*, 2012;3:1159-63.

**Hunter RJ**, Fugii H, Wakame K, Gaikwad A, Wolk JK, Smith JA. Evaluation of safety and efficacy of active hexose correlated compound (AHCC) in combination with pegylated doxorubicin in ovarian cancer. *International Journal of Applied Research in Natural Products*, Sept-Oct 2011;4(3):6-14.

**Hunter RJ**, Pace M, Burns K, Burke C, Gonzales D, Webb N, Levenback C, Jhingran A, Zandstra F, Munsell M, Smith JA. Evaluation of intervention to prevent hypomagnesemia in cervical cancer patients receiving combination cisplatin and radiation treatment. *Supportive Care in Cancer* 2009 Sep;17(9):1195-201.

**Hunter RJ**, Navo MA, Thaker PH, Bodurka DC, Wolf JK, Smith JA. Dosing chemotherapy in obese patients: actual versus assigned body surface area (BSA). *Cancer Treatment Reviews* 2009 Feb;35(1):69-78.

El Shaly HM, Teeter L, Zerai T, Andrade RA, Munoz, C, Nnabuike C, **Hunter RJ**. Serum Creatinine changes in HIV-seropositive patients receiving tenofovir. *AIDS* 2006; 20(5):786-787.

### Other publications:

**Cyclin Dependent Kinase 4/6 Inhibitors**, Hematology Oncology Pharmacy Association News (2018), Volume 15, Issue 1, Feature Article

**Palbociclib (Ibrance ®), Pharmacist's Applications to Practice**, Hematology Oncology Pharmacy Association Drug Update, October 2017

**Lapatinib (Tykerb ®)**. Hematology Oncology Pharmacy Association Newsletter, Drug Update Fall 2007

**Abstracts:**

**Hunter RJ.** Analysis of Drug Interaction Potential of Ribociclib With Commonly Used Medicines and Herbal Supplements in Patients with Advanced Breast Cancer. Oncology Nurse Navigator Summit, Austin, TX, 2017

**Hunter RJ,** Hughes C, Bodurka D, Wolf J, Urbauer D, Smith JA. Evaluation of the impact of modification of patient parameters used to calculate carboplatin dose on toxicity and treatment outcomes in ovarian cancer patients. Hematology Oncology Pharmacy Association/International Society of Oncology Pharmacy Practitioners Annual 5<sup>th</sup> Meeting, Miami, FL, 2009

Hammerstrom A, Syed J, **Hunter RJ,** Bodurka DC, Kurian S, Sun C, Munsell M, Levenback C, Smith JA. Evaluation of the educational intervention on medical team compliance with NCCN myeloid growth factor guidelines (#313) American College of Clinical Pharmacy Annual Meeting, Louisville, Kentucky, 2008

**Hunter RJ,** Fugii H, Wakame K, Gaikwad A, Wolk JK, Smith JA. Evaluation of safety and efficacy of active hexose correlated compound (AHCC) in combination with pegylated doxorubicin in ovarian cancer xenograft model (#285) American College of Clinical Pharmacy Annual Meeting, Louisville, Kentucky, 2008

**Hunter RJ,** Pace M, Burns K, Burke C, Gonzales D, Webb N, Levenback C, Jhingram A, Zandstra F, Munsell M, Smith JA. Evaluation of addition magnesium supplementation to prevent hypomagnesemia in cervical cancer patients receiving combination cisplatin and radiation (TR-6) Hematology Oncology Pharmacy Association/International Society of Oncology Pharmacy Practitioners Annual 4<sup>th</sup> Meeting, Anaheim, CA, 2008

Mach CA, Jones KL, **Hunter RJ,** Burns KA, Kurian S, Webb N, Munsell M, Brown J, Smith JA. Evaluation of the addition of premedications prior to carboplatin to prevent hypersensitivity reactions in ovarian cancer patients (TR-5) Hematology Oncology Pharmacy Association/International Society of Oncology Pharmacy Practitioners Annual 4<sup>th</sup> Meeting, Anaheim, CA, 2008

Liang D, Ma J, **Hunter RJ,** Williams B, Putcha L, Bates T. Effect of Simulated Weightlessness on the Pharmacokinetics of the interaction between Moxifloxacin and Maalox ® American Association of Pharmaceutical Scientists Annual Meeting, Memphis, TN, 2006

Agbahiwe SO, **Hunter RJ,** Smith DD, Eshleman OO, Flores FG. Medication Use Evaluation of Darbepoetin alfa Versus Epoetin alfa in Anemic Patients Secondary to HIV, Cancer, Hepatitis, Surgery and Renal Insufficiencies. (abstract #SP-10) Poster presentation to faculty and students at the American Society of Health System Pharmacists Midyear Meeting, Orlando, FL, 2005

**Presentations at National or International Conferences:**

Platform, Understanding a Scientific Advancement For Women with HR+/HER2-Metastatic Breast, Cancer Support Community, St. Louis, MO 9/2017

Platform, Expanded Indication for a First-in-Class Oral Therapy for the Treatment of a Breast Cancer, Mercy David C. Pratt Cancer Center, Town and Country, MO 8/2017

Platform, Analysis of Drug Interaction Potential of Ribociclib With Commonly Used Medicines and Herbal Supplements in Patients with Advanced Breast Cancer. Annual Meeting on Supportive Care in Cancer, Washington, DC, 6/2017

Platform, Stronger Together: Partnering with your patients to support them on therapy. Managing Treatment for Women with HR+/HER2-Metastatic Breast Cancer, National Community Oncology Drug Association Annual Symposium, 10/2016

International Television, VIETV, Host: Dr. Charles Phan, High Cholesterol and Anticoagulation, Houston, TX, 1/2016

International Television, VIETV, Host: Dr. Charles Phan, Hypertension and Diabetes, Houston, TX, 1/2016

Platform, Hepatitis C Virus Disparities among African American, Bristol-Myers Squibb, Lawrenceville, New Jersey, 2/2014

Platform, Multiple Myeloma, Association of Black Health System Pharmacists: Minority Symposium, Houston, Texas 3/2011

Platform, Evaluation of Active Hexose Correlated Compound (AHCC) in combination with pegylated liposomal doxorubicin, Society of Integrative Oncology Annual Meeting, New York Academy of Medicine, 11/2009

**Presentations at Regional or Local Conferences:**

Platform, An Innovative, First-In-Class Oral Therapy: Stronger Together, Two Combination Regimens Studied Across a Broad Range of Women with Hormone Receptor-Positive (HR+), Human Epidermal Growth Factor Receptor 2-Negative (HER2) - Metastatic Breast Cancer, Oncology Nurse Society local meeting, Houston, TX, 4/2016

Platform, An Innovative, First-In-Class Oral Therapy: Stronger Together, Two Combination Regimens Studied Across a Broad Range of Women with Hormone Receptor-Positive (HR+), Human Epidermal Growth Factor Receptor 2-Negative (HER2) - Metastatic Breast Cancer, Mercer Cancer Center, Oklahoma, OK, 3/2016

Platform, Optimizing First-Line Treatment for Postmenopausal Women With Estrogen Receptor (ER)+/Human Epidermal Growth Factor Receptor 2 (HER2)- Metastatic Breast Cancer, Oncology Nurse Society local meeting, El Paso, TX, 2/2016

Platform, Optimizing First-Line Treatment for Postmenopausal Women With Estrogen Receptor (ER)+/Human Epidermal Growth Factor Receptor 2 (HER2)- Metastatic Breast Cancer, Midland, TX, 1/2016

Platform, Understanding a Scientific Advancement For Women With HR+/HER2- Metastatic Breast Cancer, Lubbock, TX, 8/2015

Platform, Understanding a Scientific Advancement For Women With HR+/HER2- Metastatic Breast Cancer, Sugarland, TX, 6/2015

Keynote Speaker, Breast Cancer Awareness Walk and Rally, Port Arthur, TX, 10/2015

Platform, HCC, OLT, and mTOR Inhibitors on a Collision Course, Pharmacy Research Forum UT MD Anderson Cancer Center, Houston, TX, 3/2013

Platform, Pharmacogenomics, Student National Pharmacy Association Regional Meeting, Houston, TX, 4/2010

Platform, Evaluation of Addition Magnesium Supplementation to Prevent Hypomagnesemia in Cervical Cancer Patients Receiving Combination Cisplatin and Radiation, ALCALDE Southwest Leadership Conference, Dallas, TX, 3/2009

**Institutional Grand Rounds:**

Platform, HCC, OLT, and mTOR Inhibitors on a Collision Course, University of Texas Medical School (Division of Oncology), Houston, TX, 2/2014

Ras Mutation: A New Clinical Target in Oncology Treatment, Division of Pharmacy at UT MD Anderson Cancer Center, Houston, TX, 01/2010

Pharmacogenomics: Clinical Applications and Effects on Drug Metabolism, Division of Pharmacy at UT MD Anderson Cancer Center, Houston, TX, 04/2009

Integration of Monoclonal Antibodies in to the Treatment of Ovarian Cancer, Division of Pharmacy at UT MD Anderson Cancer Center, Houston, TX, 04/2008

**TEACHING**

**Course Coordinator:**

Course Coordinator, Pharmacotherapy Skills Lab, Pharmacotherapy (PHAR 610), Fall 2012, Fall 2013, Fall 2014, Fall 2015, Fall 2016, Fall 2017

Course Coordinator, Pharmacotherapy II (PHAR 640), Infectious Diseases, Immunology, and Oncology, Fall 2013, Fall 2014, Fall 2016, Fall 2016, Summer 2017, Fall 2017

Course Coordinator, Pharmacotherapy III Skills Lab (PHAR 611), Spring 2012, Spring 2013, Spring 2014, Spring 2015, Spring 2016

Course Coordinator, Pharmacotherapy I (PHAR 542), Summer 2016

**Group Teaching:**

Lecturer, Pharmacotherapy II (PHAR 542), Spring 2013, Spring 2014, Spring 2015, Spring 2016, Spring 2017

Lecturer, Pharmacotherapy V (PHAR 642), Spring 2013, Spring 2014, Spring 2015, Spring 2016, Spring 2017

Lecturer, Pharmacotherapy VI (PHAR 643), Spring 2013, Spring 2014, Spring 2015, Spring 2016, Spring 2017

Lecturer, Pharmacotherapy VII (PHAR 644), Spring 2013, Spring 2014, Spring 2015, Spring 2016, Spring 2017

Lecturer, Pharmacotherapy IV (PHAR 641), Fall 2013, Fall 2014, Fall 2015, Fall 2016, Fall 2017

Lecturer, Oncology Pharmacotherapy (UT Health Memorial Hermann Cancer Center), 2 times a month since Fall 2016

Lecturer, "Platinum Analogs" Oncology Forum, UT MD Anderson Cancer Center, Houston, Texas, 11/2009

Lecturer, "Ras Pathway in Cancer Therapy" Research Meeting, Centers for Targeted Therapy, UT MD Anderson Cancer Center, Houston, Texas, 11/2009

Lecturer, "Cancer Early Detection, Screening, and Prevention" Oncology Forum, UT MD Anderson Cancer Center, Houston, Texas, 9/2009

Lecturer, "Platinum Analogs" Oncology Forum, UT MD Anderson Cancer Center, Houston, Texas 11/2009

Lecturer, "Pharmacogenomics in Oncology" University of Houston College of Pharmacy, Oncology Pharmacotherapy Course, Houston, TX, 06/2009

Lecturer, "Vinca Alkaloids" University of Houston College of Pharmacy, Oncology Pharmacotherapy Course, Houston, TX, 06/2009

Lecturer, "Anthracyclines" University of Houston College of Pharmacy, Oncology Pharmacotherapy Course, Houston, TX, 06/2009

Lecturer, "Guidelines for Prescribing Chemotherapy in Gynecologic Oncology",  
Department of Gynecologic Oncology, Resident Orientation, 03/2009

Lecturer, "Targeted Therapy in Gynecologic Oncology" Fellowship Conference,  
Department of Gynecologic Oncology, UT MD Anderson Cancer Center, Houston, TX,  
04/2009

Lecturer, "Pharmacogenomics, Drug Discovery, Gene Therapy, and Vaccines"  
Oncology Forum, UT MD Anderson Cancer Center, Houston, TX, 10/2008

## **GRADUATE CONTRIBUTIONS**

### **Postgraduate Residency/Fellowship Placement:**

Angela Gamwell (Professional Year – 1 Residency)

An Le (Professional Year – 1 Residency, Administration Master's Program)

Okiki Orojo (Professional Year – 1 Residency)

Brian Mitchell (Professional Year – 1 Residency, Professional Year – 2 Residency in  
Psychiatry)

Christy McNamara (Professional Year – 1 Residency)

Chris Njigha (Professional Year – 1 Residency)

Dawn Bey (Industry Fellowship – Bristol Myers Squibb)

Elvis Achuo (Professional Year – 1 Residency)

Emmanuel Animeke (Professional Year – 1 Residency)

Femi Felix-Ukwu (Non-Traditional 3 year Residency in Pediatrics)

George Okpamen (Industry Fellowship – Eli Lilly)

Jasmine Bailey (Professional Year – 1 Residency)

Kiydra Harris (Global Health Fellowship (Bristol Myers Squibb)

Mohammed Qudoos (Professional Year – 1 Residency)

Mohammed Hersi (Professional Year – 1 Residency)

Ndidi Alino (Professional Year – 1 Residency, Administration Master's Program)

Pamela Chukwuleta (Professional Year – 1 Residency)

Sona Doshi (Industry Fellowship – Janssen and Usciences)

Samuel Ubanyionwu (Professional Year – 1 Residency, Professional Year – 2  
Residency in Pharmacy Informatics)

Tina Nguyen (Professional Year – 1 Residency)

Uchenna Obi (Professional Year – 1 Residency, Administration Master's Program)

Veronica Ajewole (Professional Year – 1 Residency, Professional Year – 2 Residency in  
Oncology)

## **SERVICE**

### **University:**

Advisor, Kappa Psi Pharmaceutical Fraternity, Inc., Delta Theta Chapter, 2013 - Present

Advisor, Student National Pharmaceutical Association, Texas Southern Student  
Chapter, 2011 - Present

Committee Member, Faculty Hearing Committee, 2015 - 2016

Committee Member, Faculty Search Committee, 2012 - Present

Committee Member, Pharmacy Admissions Committee, 2011 - Present

Committee Member, University Library Committee, 2012 – Present

**National and International:**

Treasurer, Association of Black Health System Pharmacists, 2012 - 2013

Board of Directors, Association of Black Health System Pharmacists, 2011 - 2012

Full Member, American College of Clinical Pharmacy, 2010 – 2012

Associate Member, Hematology/Oncology Pharmacy Association, 2008 – 2012

Associate Member, American Association of Cancer Research (AACR), 2007 – 2008

Member, Minorities in Cancer Research, 2007 – 2008

Associate Member, American College of Clinical Pharmacy, 2007 – Present

Member, Hematology/Oncology PRN, 2007 – Present

Member, Women's Health, 2007 – 2008

Member, Phi Lambda Sigma Leadership Society, Alpha Pi Chapter, 2006 – Present

Member, Rho Chi National Honor Society, Gamma Delta Chapter, 2006 – Present

**Officer, President, 2006 - 2007**

Member, American Society of Health Systems Pharmacists and Texas Southern

University Student Society Health Pharmacists, 2004 – Present

Member, Texas Society of Health System Pharmacists and Gulf Coast Society of Health System Pharmacists, 2004 – Present

Student Mentor, 2008 – Present

Mentees:

Ashley Scott, PharmD Candidate

Gift Nweke, PharmD Candidate

Sania Sultan, PharmD Candidate

Student Representative, Admissions Committee Texas Southern University College of Pharmacy & Health Sciences, 2006 – 2007

Member, American Pharmaceutical Association (APhA), 2005 - 2007

# Webb M. Jones

Office 713-664-5132 ext. 13  
 Facsimile 713-649-8884  
 Pager 713-719-0777

## Education

12/88	Jurist Doctor Thurgood Marshall School of Law, <u>Medical Malpractice &amp; Pharmacy</u> Texas Southern University Houston, Texas
8/78	Masters of Public Health (Community Health Module) Urban Health Project: <u>"The Effect of the Pharmacist on Drug Compliance in a Neighborhood Health Clinic"</u> University of Texas School of Public Health Houston, Texas
6/70	Bachelor of Science, Pharmacy Florida A&M University Tallahassee, Florida

## Work Experience

<b>Education Instructor</b> (Management, Pharmacy Continuing Education) <i>CPR Instructor Trainer, AED Instructor</i> <i>Harris County Hospital District, Houston, Texas</i>	Present
<b>Adjunct Instructor</b> (Healthcare Law, Ethics, Pharmacology, Mock Trial) <i>Emergency Medical Service, Alvin Community College, Alvin Texas</i>	Present
<b>Sole Practitioner</b> (Civil Practice) <i>Webb M. Jones, Attorney Counselor at Law, Houston, Texas</i>	Present
<b>Staff Pharmacist</b> <i>Ben Taub Hospital, Houston, Texas</i>	1986 1991
<b>Director of Pharmacy</b> <i>Galveston County Health District, La Marque, Texas</i>	1973 1986
<b>Staff Pharmacist</b> <i>Danforth Hospital, Texas City, Texas</i>	1980 1986
<b>Assistant to the Mayor of the City of Houston</b> (Mayor's representative on the combining of the City of Houston and Harris County Health Departments)	1975
<b>Pharmaceutical Consultants</b> <i>Owner; provided pharmaceutical consulting services to nursing homes.</i>	1973 1980

## Military Experience

1976 Honorable Discharge (Captain- U.S. Army Infantry Small Unit Commander)

## Professional Licenses

May 1989 Admitted to Texas Bar  
 May 1972 Licensed in Pharmacy, Texas

## Professional Honors

1989 Who's Who Among American Law Students  
 1988 National Dean's List

## Organizations

National Pharmaceutical Association	American Pharmaceutical Association
National Bar Association	American Bar Association
Shriners ( El Kattif), Mason	Kappa Alpha Psi
Lions Club of America (Lion of the Year)	Stars of the Future Basketball

### **PHARMACY EXPERIENCE**

**Supervised Pharmacy personnel ;**

**Designed and created drug formulary system for prescribing of drugs;**

**Initiated direct from manufacture drug ordering procedures;**

**Established contract and quantity drug ordering/ purchasing procedures;**

**Incorporated emergency medical service drug purchasing into pharmacy purchasing;**

**Established drug distribution and consultation to and for all specialty clinics;**

**Created a Class "D" pharmacy;**

**Provided a more clinical aspect to pharmaceutical services by creating a patient profile system;**

**Initiated a Physician and Pharmacist consultation on dosage regimens for problem patients; and**

**Provided in-service training for all healthcare personnel connected with any aspect of drug administration and distribution.**

## EDUCATIONAL ACCOMPLISHMENTS

### **ALVIN COMMUNITY COLLEGE**

**1999-PRESENT**

Taught in the EMS/Management program for the college. My duties have included the development and presentation of a mock trial, classes in healthcare law, and ethics.

### **HARRIS COUNTY HOSPITAL DISTRICT**

**1993-PRESENT**

My primary responsibilities have been providing continuing education for the Department of Pharmacy. In addition I have assisted in consulting with management and have created the competency skills checklists utilized for pharmacists and pharmacy technicians. In addition, I am the creator, developer, and presenter for the Pharmacy Technician Review course, which prepares technician for the certification examination. A pharmacist home study library was created and distributed to pharmacists for continuing education credits.

CPR Instructor Trainer responsible for assisting training CPR instructors and employees of the Harris County Hospital District. In conjunction with this program, as an AED Instructor, my duties include training employees in the use of the AED.

Texas Pharmacy Laws, Rules, and Regulations

Changes To The Texas Pharmacy Laws (annually)

Legislative Update (annually)

Pharmacy Technician Review (twice annually)

Drug Utilization Review

Principles Of Pharmacology

Pharmacy Calculations

Medication Classification

Aseptic Technique/Sterile Products

Quality Assurance For Pharmacy Prepared Sterile Products

Aseptic Preparation of Parental Products & Parental Incompatibilities

Controlled Substance Presentation by DEA

Controlled Substances

Substance Abuse

Critical Decisions In Hospital Pharmacy

Pharmacy Communications

Interprofessional Communications

A Matter of Trust

Laboratory Values

Pharmacy Exceptional Service

Reducing Medication Errors  
Federal Regulatory Agencies & Pharmacy

The Power of Professionals

OBRA 90, Its Impact On Pharmaceutical Care

OBRA 90, Patient Counseling & The Pharmacist

Pharmacist Documentation In Hospital Records

Responsibility For Drug Induced Injury

The Pharmacy Team In A Rapidly Changing World

Team Building

Self-Directed Work Teams and Cooperation

Working With Difficult People

Beyond Race & Gender

Management Skills Conference

Setting Priorities, Hiring and Firing

Improving Planning

To Lead, To Manage, To Counsel

Domestic Violence There Is No Excuse

Family Violence

How To Work Collaboratively With Difficult People In A Stressful Environment

Leadership, Cultural Change & Morality

Leadership, Power & Authority

Power & Authority

(Management Development Institute) Practical Solutions For Everyday Workplace Issues

(Management Development Institute) Ethics Theory and Ethical Decision Making

Healthcare Law & Ethics

Patients' Rights, Legal Conduct, Ethical Dilemmas In The Workplace

Tips For Avoiding Legal & Ethical Dilemmas In the Workplace

Conflict & Hostility

Decision Making

Politics In The Hospital

Politics In The Hospital II

Ethics In Healthcare

Ethics For Office Personnel

Elements of Ethics

Motivation Through Empowerment

**Curriculum Vitae****DONG LIANG, Ph.D.**

**OFFICE ADDRESS** Department of Pharmaceutical & Environmental Health Sciences (DPEHS)  
**PHONE & E-MAIL:** College of Pharmacy and Health Sciences  
 Texas Southern University (TSU)  
 3100 Cleburne Street  
 Houston, TX 77004  
 Tel: 713-313-1885  
 Cell: 713-828-4334  
 Email: dong.liang@tsu.edu

**PRESENT POSITION:** Professor of Pharmaceutics (2009 - Present)  
 Chair (2007 - Present), DPEHS  
 Director (2008 - Present), Graduate Programs in Pharmaceutical Sciences  
 College of Pharmacy and Health Sciences  
 Texas Southern University

Adjunct Professor (2000 - Present)  
 Department of Pharmacological and Pharmaceutical Sciences  
 College of Pharmacy  
 University of Houston

**EXPERIENCE:** Interim Chair (2005-2007), DPEHS  
 Assistant Professor (1998-2004), DPEHS  
 Associate Professor (2004–2009), DPEHS  
 Research Scientist (1997-1998), Mylan Pharmaceuticals Inc., Morgantown, WV  
 Postdoctoral Research Associate (1995-1996), DPS, TSU

**EDUCATION:**

Ph.D. Pharmaceutics	1995	University of Houston, Houston, TX
M.S. Pharmacy	1988	Zhejiang Medical University, China
B.S. Pharmacy	1985	Zhejiang Medical University, China

**HONOR, AWARDS AND SCIENTIFIC SOCIETIES:**

1. TSU RCMI Pioneer Award for Research Excellence and Leadership, 2016
2. Minority-Serving Institution Faculty Scholar in Cancer Research Awards, AACR, 2011
3. First Place Faculty Oral Presentation, TSU Annual Research Week March 30 - April 6, 2009
4. Scholar of the Year Award, COPHS, TSU, 2009
5. APhA Faculty Advisor, 2000-Present
6. USP Convention Member, representing TSU, 2000 - Present
7. Merit Undergraduate Scholarship, Zhejiang Province, China, 1985
8. Member, American Association of Pharmaceutical Scientists, 2001-Present

**CONSULTANTSHIP:** Mylan Pharmaceuticals Inc., Morgantown, WV, 1998-2012

**TEACHING ACTIVITIES****A. TEACHING GRADUATE AND PROFESSIONAL COURSES**Professional Courses

PHAR 434/414 Dosage Forms &amp; Lab (3+1 Cr. Hr.)

PHAR 539/519 Pharmacokinetics &amp; Lab (3+1 Cr. Hr.)

Graduate Courses

PHS 810 Physical Pharmacy (3 Cr. Hr.)

PHS 906 Advanced Pharmacokinetics (3 Cr. Hr.)

PHS 907 Advanced Pharmaceutics (3 Cr. Hr.)

**B. TRAINING PROFESSIONAL AND GRADUATE STUDENTS****B1. As Major Advisor**

<u>Name</u>	<u>Degree</u>	<u>Date</u>	<u>Current Employment</u>
Lyndsey White	Ph.D.	Dec. 2016	Charles River Laboratory
Cheng-Hui Hsiao	Ph.D.	May 2015	University of Houston
Keila Robinson	Ph.D.	May 2014	Supernus Pharmaceuticals Inc
Jason Callabero	Ph.D.	Aug.2012	FDA
Jyothy John	Ph.D.	May 2012	FDA
Bo Wei	Ph.D.	May 2009	MD Anderson Cancer Center

**B2. As Member of Dissertation Committees**

<u>Name</u>	<u>Degree</u>	<u>Date</u>	<u>Current Employment</u>
Candice Cooper	Ph.D.	Dec. 2017	FDA
Oscar Ekpenyong	Ph.D.	May 2017	Merck Co., Inc.
Zhiyi Cui	Ph.D.	May 2015	Abbott Laboratories
Ada Eluwa	Ph.D.	Dec. 2014	Imam Abdulrahman Bin Faisal Univ.
Sara Finney	Ph.D.	Dec. 2014	Harris Health System
Xiaomei Bian	Ph.D.	May 2014	Premier Research labs
Su Liang	Ph.D.	May 2014	FDA
Mathew John	Ph.D.	May 2013	FDA
Yang Teng	Ph.D.	Dec. 2012	Merck & Co.
Roland Ako	PharmD/PhD	June 2011	Private practice
Yulan Qi	Ph.D.	May 2008	BioMarin Pharmaceutical Inc.
Yousif Rojeab	Ph.D.	June 2007	Ohio Northern University
Pranav Gupta	Ph.D.	June 2006	Schering-Plough Corporation
Xiaohui Li	Ph.D.	July 2004	Bristol-Myers Squibb

**B3. Professional Students for Research Electives**

Trained &gt; 30 professional Pharm.D students in summer research programs

**RESEARCH ACTIVITIES****A. RESEARCH INTERESTS**

My primary research focuses on the development and evaluation of novel drug delivery systems with an improved bioavailability using pharmacokinetic tools. Highly potent drugs are often ineffective in vivo due to their limited bioavailability to the blood circulations due to their inability to dissolve in the

GI tract for absorption or first-pass metabolism, on the other hand, certain drugs often exhibit toxicity in patients due to their concomitant administration with another drug/food which may interact each other. By providing evident pharmacokinetic evaluation, this body of work has guided new formulation development and provided mechanistic information on proper use of those drugs in clinical settings with maximal efficacy and minimal toxicity. I served as the primary investigator or co-investigator in these pharmacokinetic studies.

Closely collaborated with a team of faculty at Texas Medical Center, I directly provided preclinical pharmacokinetic support in developing a number of nanotechnology-based novel cancer imaging agents, many of which have proven to be more sensitive and less toxic than currently marketed agents. This body of work shines light of introducing new and specific imaging agents that can effectively detect early stage and pre-cancers in clinic to ultimately improve patient survival from cancer.

Another area of my research involves pharmacogenetic analysis of cancer chemotherapy through integrating genetic determinants of cancer, pharmacokinetics and pharmacodynamics of anticancer drugs, and clinical outcomes. Understanding genetic determinants of individual patient and their relationship with drug pharmacokinetics and clinical outcome would have a major impact on predicting drug response. From our ovarian cancer patient study, we found that patients carrying rae homozygous genotype of rs1425486 in PDGFC had worst treatment response. We also fund that polymorphisms in NER, MMPs, TGF $\beta$ , mTOR, telomere, SHH, NOTCH, and Wnt/ $\beta$ -catenin pathways have significant relationships with overall cancer survival. These studies provide guidance to select the best suitable chemotherapeutic regimen for the best clinical outcomes.

I'm currently developing analytical methods for the quantification of small metabolites as potential biomarkers for prevention and screening of cancer. Using QTRAP 4000 LC-MS/MS system, we have identified and validated sensitive and specific analytical methods to quantitate metabolites such as mannose, bilirubin, proline amd etc.

## **B. PATENTS**

1. USA Patent No. 7,419,996 (Granted on September 2, 2008)  
Parenteral and oral formulations of benzimidazoles
2. International Patent Filing No. PCT/US2004/026168  
Pending (Filing date: August 12, 2004).  
Parenteral and oral formulations of benzimidazoles
3. USA Patent No. 9,259,390 B2 (Granted Feb. 16, 2016)  
Parenteral and oral formulations of benzimidazoles – Continuation I
4. USA Patent No. 9,259,391 B2 (Granted Feb. 16, 2016)  
Parenteral and oral formulations of benzimidazoles – Continuation II
5. USA Patent No. 8,703,786 B2 (Granted Apr. 22, 2014)  
Etravirine Formulations and Uses Thereof
6. USA Patent No. 9,468,638 B2 (Granted Oct. 18, 2016)  
Itraconazole Formulations



5G12RR003045-21 Hayes (PI) 8/1/2004 – 7/31/2010  
 NIH \$6,454,537

Institute for Biomedical and Health Disparities Research

The purpose of this proposal is to build on previous RCMI support and develop an Institute for Biomedical and Health Disparities Research at the largest single campus HBCU (Historically Black Colleges and Universities) in the nation, TSU.

Role: Program Director

NNJ04HF50G Bates (PI) 5/15/2004 – 5/15/2007  
 National Aeronautics and Space Administration (NASA) \$264,449

Oral Absorption and Drug-Drug Interaction Kinetics of Quinolone Antibiotics in an Animal Model of Weightlessness.

This study will investigate the effect of microgravity and concomitantly administered drugs on the oral absorption kinetics of four quinolone antibiotics with varying degrees of oral bioavailability and activity against potential pathogens.

Role: Co-Investigator

MD Anderson Cancer Center Bates (PI) 5/15/2000 – 5/15/2001  
 Tobacco Settlement Permanent Trust Funds through The 76th Texas Legislature \$216,060

Effect of Menthol on the Plasma and Brain Pharmacokinetics of Nicotine in Rats

The objective of this study was to evaluate the effect of menthol on the pharmacokinetics of nicotine and its metabolite, cotinine using rat as an animal model

Role: Co-Investigator

MD Anderson Cancer Center Bates & Liang (Co-PIs) 12/1/2001 – 12/1/2004  
 Tobacco Settlement Permanent Trust Funds through The 76th Texas Legislature \$214,862

Effects of Menthol on the Pharmacokinetics and Neuropharmacological Activity of Nicotine

The objective of this study was to evaluate neuropharmacological effect of menthol after cigarette smoking using rat as an animal model

Role: Co-Principal Investigator

#### D. PEER-REVIEWED PUBLICATIONS

1. Yian C, Fang S, **Liang D**, Studies on the alkaloid of *Stephania Yunnanensis*. *Acta Botanica Sinica*, 31: 296-299, 1989.
2. **Liang D**, Liang W, Liu ZQ, The relationships between percutaneous permeation rate of drug and its HPLC retention behavior. *Acta Academiae Medicine Sinicae*, 12:262-267, 1990.
3. Mao L, Zhou R, **Liang D**, Studies on the nutritional components of Chinese youth pollen tablet and USA forever honeybee pollen tablet. *Acta Nutrimenta Sinica*, 12:121-123, 1990.
4. **Liang D**, Chow D and White CA, High-performance chromatographic assay of cefazolin in rat tissues. *Journal of Chromatography B*. 656: 460-465, 1994.
5. Wang Y, **Liang D**, Spitz MR, Zhang K, Dong Q, Amos CI, and Wu X. XRCC3 genetic polymorphism, smoking, and lung cancer risk in minorities. *Cancer*, 98(8):1701-1706, 2003.
6. Wen X, Wu Q, Ke S, Wallace S, Charnsangavej C, Huang P, **Liang D**, Chow D, and Li C. Improved radiolabeling of PEGylated protein: PEGylated annexin V for noninvasive imaging of tumor apoptosis. *Cancer Biotherapy & Radiopharmaceuticals*, 18(5):819-827, 2003.
7. Hudmon K, Kroon LA, Corelli RL, Saunders KC, Spitz MR, Bates TR, and **Liang D**. Training future pharmacists at a minority educational institution: evaluation of the *Rx for Change* tobacco

- cessation training program. *Cancer Epidemiology Biomarkers & Prevention*, 13(3):477-481, 2004.
8. **Liang D**, Gu J, Wang Y, Lu C, Wu X. Effects of N-acetyl transferase 1 and 2 polymorphisms on bladder cancer risk in Caucasians. *Mutation Research*, 581:97-104, 2005.
  9. Zhao H, **Liang D**, Grossman HB, Wu X. Glutathione peroxidase 1 gene polymorphism and risk of recurrence in patients with superficial bladder cancer. *Urology*, 66:769-774, 2005.
  10. Li C, Wang W, Wu Q, Ke S, Houston J, Sevick-Muraca E, **Liang D**, Chow D, Charnsangavej C and Gelovani JG. Dual optical and nuclear imaging in human melanoma xenografts using a single targeted imaging probe. *Nuclear Medicine and Biology*, 33:349-358, 2006.
  11. Poon IO, Chow DS, **Liang D**. Dissolution profiles of nonprescription extended-release niacin and inositol niacinate products. *American Journal of Health-System Pharmacy*, 63:2128-2134, 2006.
  12. Barr J, Sharma CS, Sarkar S, Wise K, **Liang D**, Periyakaruppan A, Ramesh GT. Nicotine induces oxidative stress and activates nuclear transcription factor kappa B in rat mesencephalic cells. *Molecular and Cellular Biochemistry*, 297:93-99, 2007.
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  14. **Liang D**, Ma J, Wei B, Poon IO, Bell EC, Bates TR. Determination of inositol hexanicotinate in rat plasma by high performance liquid chromatography with UV detection. *Journal of Chromatography B, Analytical technologies in the Biomedical and Life Sciences*, 863:172-176, 2008.
  15. **Liang D**, Lin J, Grossman BH, Ma J, Wei B, Dinney CP, Wu X. Plasma vitamins E and A risk of bladder cancer: a case-control analysis. *Cancer Causes & Control*, 19:981-992, 2008.
  16. Wei B, **Liang D**, Bates TR. Development and validation of a HPLC method to determine griseofulvin in rat plasma: application to pharmacokinetic studies. *Analytical Chemistry Insights*, 3:103-109, 2008.
  17. Abobo CV, Wei B, **Liang D**. Stability of Zonisamide in Extemporaneously Compounded Oral Suspensions. *American Journal of Health-System Pharmacy*, 66:1105-1109, 2009.
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  20. Chow DL and **Liang D**. Parenteral and oral formulations of benzimidazoles. U.S. Patent No. 7,419,996 (Granted on September 2, 2008).
  21. Abobo CV, Wu L, John J, Joseph MK, Bates TR, **Liang D**. LC-MS/MS determination of etravirine in rat plasma and its application in pharmacokinetics studies. *Journal of Chromatography B*, 878:3181-6, 2010. PMID: 20965798.
  22. **Liang D**, Meyer L, Chang DW, Lin J, Pu X, Ye Y, Gu J, Lu K, Wu X. Genetic variants in microRNA biosynthesis pathways and binding sites modify ovarian cancer risk, survival, and treatment response. *Cancer Research*, 70:9765-76, 2010. PMID: 21118967.
  23. Zhou M, Zhang R, Huang M, Lu W, Song S, Melancon M, Tian M, **Liang D**, Li C. A chelator-free multifunctional [<sup>64</sup>Cu]CuS nanoparticle platform for simultaneous micro-PET/CT imaging

- and photothermal ablation therapy. *Journal of the American Chemical Society*, 132:15351-8, 2010. PMID: 20942456.
24. Wen X, Lyu MA, Zhang R, Lu W, Huang Q, **Liang D**, Rosenblum MG, Li C. Biodistribution, Pharmacokinetics, and Nuclear Imaging Studies of (111)In-labeled rGel/BLyS Fusion Toxin in SCID Mice Bearing B Cell Lymphoma. *Mol Imaging Biol*. 13:721-9, 2011. PMID: 20686856
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  26. Zhang R, Lu W, Wen X, Huang M, Zhou M, **Liang D**, Li C. Annexin A5-conjugated polymeric micelles for dual SPECT and optical detection of apoptosis. *Journal of Nuclear Medicine*, 52:958-64, 2011. PMID:21571801.
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  29. Wei B, Abobo CV, Ma J, **Liang D**. Gender differences on pharmacokinetics of antipyrine in a simulated weightlessness rat model. *Aviation, Space and Environmental Medicine*, 83:8-13, 2012.
  30. Abobo CV, Ma J, **Liang D**. Effect of menthol on nicotine pharmacokinetics in rats after cigarette smoke inhalation. *Nicotine & Tobacco Research*, 14: 801-8, 2012. Doi: 10.1093/ntr/ntr287. PMID: 22311961.
  31. You J, Zhang R, Zhang G, Zhong M, Liu Y, Van Pelt CS, **Liang D**, Wei W, Sood AK, Li C. Photothermal-chemotherapy with doxorubicin-loaded hollow gold nanospheres: a platform for near-infrared light-triggered drug release. *Journal of Controlled Release*, 158:319-328, 2012. PMID: 22063003.
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39. Meng QH, Xu E, Hildebrandt MA, **Liang D**, Lu K, Ye Y, Wagar EA, Wu X. Genetic Variants in the Fibroblast Growth Factor Pathway as Potential Markers of Ovarian Cancer Risk, Therapeutic Response, and Clinical Outcome. *Clinical Chemistry*, 60:222-32, 2014.
40. Liang S, Bian X, Liang D, Sivils JC, Neckers LM, Cox MB, Xie H. Solution formulation development and efficacy of MJC13 in a preclinical model of castration-resistant prostate cancer. *Pharmaceutical Development and Technology*, 7:1-6, 2014.
41. Charbonneau B, Block MS, Bamlet WR, et al. Risk of ovarian cancer and the NF- $\kappa$ B pathway: genetic association with IL1A and TNFSF10. *Cancer Research*, 74:852-61, 2014.
42. You J, Zhou J, Zhou M, Liu Y, Robertson JD, **Liang D**, Van Pelt C, Li C. Pharmacokinetics, clearance, and biosafety of polyethylene glycol-coated hollow gold nanospheres. *Particle and Fibre Toxicology*, 11:26, 2014.
43. Melancon M, Zhou M, Zhang R, Xiong C, Allen P, Wen X, Huang Q, Wallace M, Myers J, Stafford RJ, **Liang D**, Ellington A, Li C. Selective Uptake and Imaging of Aptamer- and Antibody-Conjugated Hollow Nanospheres Targeted to Epidermal Growth Factor Receptors Overexpressed in Head and Neck Cancer. *ACS Nano*, 8:4530-8, 2014.
44. Wang Y, Ye Y, Lin J, Meyer L, Wu X, Lu K, **Liang D**. Genetic variants in matrix metalloproteinase genes as disposition factors for ovarian cancer risk, survival, and clinical outcome. *Molecular Carcinogenesis*, 54:430-9, 2015.
45. You J, Zhou J, Wen X, Wu C, Huang Q, Guan F, Wu R, **Liang D**, Li C. Chemoradiation therapy using cyclopamine-loaded liquid-liquid nanoparticles and lutetium-177-labeled core-crosslinked polymeric micelles. *Journal of Controlled Release*, 202:40-8, 2015.
46. Wen C, Zhang F, **Liang D**, Wen C, Gu J, Kinner H, Chow W, Ye Y, Pu X, Hildebrandt MA, Huang M, Chen C, Hsiung C, Tsai MK, Tsao CK, Lippman SM, Wu X. The ability of bilirubin in identifying smokers with higher risk of lung cancer: a large cohort study in conjunction with global metabolomics profiling. *Clinical Cancer Research*, 21:193-20, 2015.
47. Lu Y, Cuellar G, Painter JN, et al. Shared genetics underlying epidemiological association between endometriosis and ovarian cancer. *Human Molecular Genetics*, 24(20):5955-64, 2015.
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49. Chornokur G, Lin HY, Tyrer JP, et al. Common genetic variation in cellular transport genes and epithelial ovarian cancer (EOC) risk. *PLoS One*, 10(6):e0128106, 2015.
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53. Kar SP, Tyrer JP, Li Q, et al. Network-Based Integration of GWAS and Gene Expression Identifies a HOX-Centric Network Associated with Serous Ovarian Cancer Risk. *Cancer Epidemiol Biomarkers Prev.*, 24(10):1574-84, 2015.
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- candidate biomarkers for esophageal cancer early detection and risk stratification. *Biomed Chromatogr.*, 29:570-7, 2015.
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## E. PRESENTATIONS

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2. D. Liang, D. Chow and C.A. White, Comparative pharmacokinetics and tissue distribution studies of liposomal cefazolin in normal and neutropenic rats. *Pharm. Res.*, 11: S411, 1994.
3. D. Liang, C.A. White and D. Chow, Improved targeting and therapeutic efficacy of cefazolin encapsulated in liposomes against *s. aureus* in mouse infection model. *Proceedings of the 22nd International Symposium on Controlled Release of Bioactive Materials*, 22:448-449, 1995.
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6. D. Liang, & T.R. Bates. Effect of administration time on the pharmacokinetic interaction between didanosine and allopurinol. *Pharm. Res.*, 14 (11), 555S, 1997.
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11. X. Li, D. Liang, B. Giovanella, D. Chow. Comparative pharmacokinetics of CZ48, lactone-stabilized camptothecin-C20-propionate and camptothecin. *AAPS PharmSci Suppl.*, 4(4), W5261, 2002.
12. D. Liang, J. Ma, T.R. Bates. Effect of Simulated Weightlessness on Moxifloxacin Absorption and Disposition Kinetics in the Rat. Presented at the AAPS 2003 Annual Meeting at Salt Lake City, UT, October 26-30, 2003.
13. D. Chow, D. Liang, P. Gupta, H. Yang, A. Stewart, J. Sasaki, A. Mhashilkar, J.A. Roth, T. Mukhopadhyay, S. Chada. Parenteral and oral formulations of a novel microtubule inhibitor for anti-neoplastic indications. Presented at the AAPS 2003 Annual Meeting at Salt Lake City, UT, October 26-30, 2003.
14. Z. Gu, R.A. Robinson, L. Cai, J. Wu, J. Duncan, W. Owns, D. Liang, M. Huang, J. O'Donnell. Metabolism study of <sup>14</sup>C-Nebivolol in humans with different CYP2D6 genotypes. Presented at the AAPS Annual Meeting at Salt Lake City, UT, October 26-30, 2003.
15. D. S-L. Chow, X. Li, D. Liang and B. C. Giovanella. "Comparative preclinical pharmacokinetics of CZ48, lactone-stabilized camptothecin-C<sub>20</sub>-propionate, with intravenous and oral administrations in rats". Abstract, *94<sup>th</sup> Annual Meeting of American Association for Cancer Research (AACR)*, Washington, DC, July 2003.
16. D. S-L. Chow, D. Liang, E. Wang, S-C. J. Yeung. Synergistic Cytotoxicity of Farnesyltransferase Inhibitor and Topoisomerase I Inhibitor Combinations in Non-Small Cell Lung Cancer Cultures Abstract, *95<sup>th</sup> Annual Meeting of American Association for Cancer Research (AACR)*, Orlando, FL, March 26-31, 2004.
17. P. Gupta, D. Liang, D. S-L. Chow. Oral microemulsion formulation for mebendazole, a novel anticancer agent. *The AAPS Journal*, Volume 6(4), Abstract W5229, 2004.
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20. P. Gupta, D. Liang, J.Ma, D. S-L. Chow. Self-microemulsifying drug delivery system (SMEDDS) for improved oral bioavailability of mebendazole. *The 32<sup>nd</sup> Annual Meeting and Exposition of the Controlled Release Society*, Orlando, FL, June 21-22, 2005.
21. D. Liang, J. Ma, R. Hunter, B. Williams, L. Putcha, and T. R. Bates. Effect of simulated weightlessness on the pharmacokinetics of the interaction between moxifloxacin and Maalox. Presented at the AAPS Annual Meeting (Abstract #M1308), Nashville, TN November 6-10, 2005.

22. D. Liang, J. Ma, B. Wei, L. Putcha, and T.R. Bates. Effect of simulated weightlessness on the pharmacokinetics of the interaction between moxifloxacin and pepto-Bismol. *Presented at the AAPS Annual Meeting* (Abstract #M1307), Nashville, TN November 6-10, 2005.
23. B. Wei, J. Ma, D. Liang, L. Putcha, and T. R. Bates. Pharmacokinetics of ciprofloxacin in a simulated weightlessness rat model. *Presented at the AAPS Annual Meeting* (Abstract #T2313), Nashville, TN November 6-10, 2005.
24. P.Gupta, D. Liang, J.Ma, D.S-L.Chow. Self-Emulsifying (SEDDS) and Self-Microemulsifying Drug Delivery Systems (SMEDDS) For Improved Oral Bioavailability of Mebendazole: Effects of Particle Size and Lipid Digestion. 33rd CRS Annual Meeting, Saturday, July 22, 2006 - Wednesday, July 26, 2006, in Vienna, Austria.
25. D. Liang, B. Wei, J. Ma, and T. R. Bates. Antipyrene Pharmacokinetics in a Simulated Weightlessness Rat Model: Gender Differences. *Presented at the AAPS Annual Meeting* (Abstract #T2312), San Antonio, TX, Oct. 29-Nov. 2, 2006.
26. B. Wei, D. Liang, J. Ma, and T. R. Bates. Effect of Simulated Weightlessness on the Pharmacokinetics of Griseofulvin After Oral Administration to Rats. *Presented at the AAPS Annual Meeting* (Abstract #T2302), San Antonio, TX, Oct. 29-Nov. 2, 2006.
27. B. Wei, D. Liang, J. Ma, and T. R. Bates. Pharmacokinetics of Antipyrene in a Simulated Weightlessness Rat Model. *Presented at the AAPS Annual Meeting* (Abstract #T2303), San Antonio, TX, Oct. 29-Nov. 2, 2006.
28. T. Zhu, R. Haddadin, D. Liang, D. Chow. Biodegradable Microsphere Formulations for CZ48, a Lactone-stabilized camptothecin, for Potential Combination cancer Therapy. *Presented at the AAPS Annual Meeting* (Abstract #R6107), San Antonio, TX, Oct. 29-Nov. 2, 2006.
29. B. Wei, D. Liang, and T.R. Bates. Altered Disposition Kinetics of Griseofulvin in a Simulated Weightlessness Rat Model. *Presented at the AAPS Annual Meeting* (AAPS Journal. 2007; 9(S2). San Diego, CA, Nov. 11-16, 2007.
30. D. Liang, I.V. Poon, J. Ma, and T.R. Bates. Pharmacokinetics of Inositol Hexaniacinate D. *Presented at the AAPS Annual Meeting* (AAPS Journal. 2007; 9(S2). San Diego, CA, Nov. 11-16, 2007.
31. B. Wei, D. Liang, and T.R. Bates. Pharmacokinetics of Gatifloxacin and Levofloxacin in a Simulated Weightlessness Rat Model. *Presented at the AAPS Annual Meeting*, Georgia World Congress Center, Atlanta, GA, Nov. 16 - 20, 2008.
32. D. Liang, J. Ma, and T.R. Bates. Biotransformation of Inositol Hexanicotinate by Human and Rat Plasma Esterases. *Presented at the AAPS Annual Meeting*, Georgia World Congress Center, Atlanta, GA, November 16 - 20, 2008.
33. D. S-L. Chow, P. Gupta. Y. Qi, D. Liang, P. Wisniecki and J. Shah. Approaches of Nanomedicine Formulations in Cancer Therapy for Achieving Significant Impacts on Pharmacokinetics and Biodistributions (Invited Lecturer). The 6<sup>th</sup> Annual Congress of International Drug Discovery Science and Technology (IDDST), Beijing, China", Oct. 18-22, 2008.
34. D. S-L. Chow, P. Gupta. Y. Qi, D. Liang, P. Wisniecki and J. Shah. Nanomedicine – self-nanoemulsifying drug delivery system (SNEDDS) and nanosuspension for oral and parenteral formulations in cancer therapy with significant impacts on pharmacokinetics and biodistributions” (Invited Lecturer). Ehrlich II World Conference on Magic Bullets, (for celebrating 100<sup>th</sup> Anniversary of Nobel Prize to Paul Ehrlich), Nuremberg, Germany, Oct. 3-5, 2008. Dong Liang, Larissa Meyer, Jie Lin, Xia Pu, Yuanqing Ye, Karen Lu, Xifeng Wu. Genetic variants in microRNA pathway genes and ovarian cancer risk. Presented in a Minisymposium at The American Association for Cancer Research 100<sup>th</sup> Annual Meeting at Colorado Convention Center, April 18-22, 2009.

36. Bo Wei, Lei Wu, Edward C. Bell, Theodore R. Bates, Dong Liang. Development and Validation of a Liquid Chromatography/Tandem Mass Spectrometry Method for Simultaneous Determination of Modafinil and Zaleplon in Rat Plasma. Presented at the AAPS Annual Meeting, Los Angeles, CA, Nov. 8- 12, 2009.
37. Lei Wu, Karen Lu, Xia Pu, Larissa Meyer, Yuanqing Ye, Xifeng Wu, Dong Liang. Genetic variants in TGF $\beta$  pathway genes and ovarian cancer risk. Presented at the 101th Annual AACR Annual Meeting to be held in Washington DC, April 17-21, 2010.
38. Yuanqing Ye, Karen Lu, Lei Wu, Jie Lin, Xia Pu, Xifeng Wu, Dong Liang. Genetic variants in MMPs genes as predisposition factors for ovarian cancer risk and clinical outcome. Presented at the 101th Annual AACR Annual Meeting, Washington DC, April 17-21, 2010.
39. Yilei Gong, Jie Lin, Yuanqing Ye, Lei Wu, Xia Pu, Xifeng Wu, Dong Liang, Karen Lu. Genetic variants in NER pathway genes and ovarian cancer risk and outcomes. Presented at the 101th Annual AACR Annual Meeting, Washington DC, April 17-21, 2010.
40. Cyril Abobo, Dong Liang, Jing Ma, Lei Wu, Jyothy John, Mathew Kizhakkekara, Theodore Bates. Effect of acute etravirine treatment on warfarin disposition kinetics in rats. Presented at 2010 FIP Pharmaceutical Sciences World Congress (PSWC) in association with the AAPS Annual Meeting and Exposition, New Orleans, LA, Nov. 14-18, 2010.
41. Cheng-Hui Hsiao, Dong Liang, Diana S-L. Chow. Pharmacokinetics and pharmacodynamics of propofol in obese and lean rats. Presented at 2010 FIP Pharmaceutical Sciences World Congress (PSWC) in association with the AAPS Annual Meeting and Exposition, New Orleans, LA, Nov. 14-18, 2010.
42. Cyril Abobo, Lei Wu, Jyothy John, Mathew Kizhakkekara, Theodore Bates, Dong Liang. LC-MS/MS determination of etravirine in rat plasma and its application in pharmacokinetic studies. Presented at 2010 FIP Pharmaceutical Sciences World Congress (PSWC) in association with the AAPS Annual Meeting and Exposition, New Orleans, LA, Nov. 14-18, 2010.
43. Cheng-Hui Hsiao, Olutoyin A. Olutoye, Dong Liang, and Diana S-L. Chow. Pharmacokinetics and pharmacodynamics of propofol in pediatric obese population. Presented at the 25<sup>th</sup> Annual Meeting of AAPS, Washington DC, October 23-27, 2011.
44. Jyothy John, Ivy Poon, Jing Ma, Mathew John, Dong Liang. Effects of red yeast rice on the pharmacokinetics of R-warfarin and S-warfarin in rats. Presented at the 25<sup>th</sup> Annual Meeting of AAPS, Washington DC, Oct. 23-27, 2011.
45. Keila Robinson, Tristan Lim, Nancy Lim, Dong Liang. Effects of beverages on dissolution rates of drug products. Presented at the 26<sup>th</sup> Annual Meeting of AAPS, Chicago, IL, Oct. 14-18, 2012.
46. Jyothy John, Mathew John, Lei Wu, Cheng-Hui Hsiao, Cyril Abobo, Dong Liang. Effects of etravirine on the pharmacokinetics and pharmacodynamics of R-warfarin and S-warfarin in rats. Presented at the 26<sup>th</sup> Annual Meeting of AAPS, Chicago, IL, Oct. 14-18, 2012.
47. Cheng-Hui Hsiao, Dong Liang, Diana S-L. Chow. Pharmacokinetics and Pharmacodynamics of Propofol in Obese Zucker Rats. Presented at the 26<sup>th</sup> Annual Meeting of AAPS, Chicago, IL, Oct. 14-18, 2012.
48. Jason Caballero, Dong Liang. Quantitative Determination of Miconazole in Rat Plasma using LC-MS/MS. Presented at the 26<sup>th</sup> Annual Meeting of AAPS, Chicago, IL, Oct. 14-18, 2012.
49. Jason Caballero, Durego Maclayton, Dong Liang. Self-emulsified Drug Delivery System of Miconazole for Improved Oral Bioavailability. Presented at the 26<sup>th</sup> Annual Meeting of AAPS, Chicago, IL, Oct. 14-18, 2012.
50. Su Liang, Beatriz Espiridion, Jing Ma, Lyndsey White, Xifeng Wu, Dong Liang. Determination of Proline in Human Serum by a Robust LC-MS/MS Method: Application to Validation of the Top Human Metabolites as Candidate Biomarkers for Esophageal Cancer Early Detection and

- Risk Stratification. Presented at the 27<sup>th</sup> Annual Meeting of AAPS, San Antonio, TX, Nov. 10-14, 2013.
51. Cheng-Hui Hsiao, Zhiyi Cui, Olutoyin A. Olutoye, Dong Liang, and Diana S-L. Chow. Effect of obesity on propofol pharmacokinetics in Zucker rats. Presented at the 27<sup>th</sup> Annual Meeting of AAPS, San Antonio, TX, Nov. 10-14, 2013.
  52. Mathew John, Huan Xie, Edward Bell, Dong Liang. Pharmacokinetic evaluation of a curcumin co-solvent formulation. Presented at the 27<sup>th</sup> Annual Meeting of AAPS, San Antonio, TX, Nov. 10-14, 2013.
  53. Keila Robinson, Dong Liang. Pharmacokinetic Evaluation of *trans*-Resveratrol and Acetyl-Resveratrol. Presented at the 27<sup>th</sup> Annual Meeting of AAPS, San Antonio, TX, Nov. 10-14, 2013.
  54. Keila Robinson, Dong Liang. Pre-formulation Studies of Trans-Resveratrol. Presented at the 27<sup>th</sup> Annual Meeting of AAPS, San Antonio, TX, Nov. 10-14, 2013.
  55. Hsiao C, Olutoye O, Lazar D, Wu L, Liang D, Chow D. Fat Percentage as Important Covariate on Propofol Pharmacokinetics in Pediatric Obese Population. Accepted to present at American College of Clinical Pharmacology (ACCP) annual meeting in San Francisco, CA, Sept. 27-29, 2015.
  56. Ma J, Liang S, Sanchez-Espiridion B, White L, Liang D. Determination of Mannose in Human Serum by a Robust LC-MS/MS Method: Application to Identification of Human Metabolites as Candidate Biomarkers for Esophageal Cancer Early Detection. Accepted to present at 2015 AAPS Annual Meeting and Exposition in Orange County Convention Center, Orlando, FL, Oct. 25-29, 2015.
  57. Sanchez-Espiridion B, White L, Saleh MA, Ajani JA, Wu X, Liang D. Serum free fatty acids as new potential biomarkers of esophageal adenocarcinoma. Presented at 2015 AAPS Annual Meeting and Exposition in Orange County Convention Center, Orlando, FL, Oct. 25-29, 2015.
  58. Lyndsey White, Shuhong Wu, Jing Ma, Bingliang Fang, Dong Liang. HPLC-MS/MS Method Development and Validation for the Determination of Oncrasin-266 and its Metabolites in Rat Plasma. Presented at 2016 AAPS Annual Meeting and Exposition in Colorado Convention Center, Denver, CO, Nov. 13-17, 2016.
  59. Lyndsey White, Shuhong Wu, Jing Ma, Bingliang Fang, Dong Liang. Pharmacokinetic Evaluation of Ascending Single Intravenous Doses of Oncrasin-266 in Rats. Presented at 2016 AAPS Annual Meeting and Exposition in Colorado Convention Center, Denver, CO, Nov. 13-17, 2016.

## **SERVICE ACTIVITIES**

### **A. ACADEMIC ADMINISTRATION**

1. Graduate Council, TSU, 2007 – Present
2. Academic Management Team, COPHS, TSU, 2005 – Present
3. M.S./Ph.D. Graduate Program Steering Committee, 2004 - Present

### **B. PROFESSIONAL SERVICES**

#### **B1. Program Reviewer for the Following National Meetings**

1. Screen and Review Committee, PPDM, American Association of Pharmaceutical Scientists (AAPS), 20<sup>th</sup>, 21<sup>st</sup>, 22<sup>nd</sup>, and 23<sup>rd</sup> Annual Meetings
2. Moderator, Scientific Session – Cancer I Symposium, 11<sup>th</sup> RCM International Symposium on Health Disparities, Dec.2008.
3. Guest Speaker, 2017 RCM International Science Conference, Oct. 2017.

## **SONDIP K. MATHUR**

Chair and Associate Professor

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### **Education**

Ph.D., Texas A&M University (Economics), College Station, Texas, 1995

M.A., Cleveland State University (Economics), Cleveland, Ohio, 1988

B.A. (Honors), Delhi University (Economics), Delhi, India, 1983

### **Certifications**

Foundations of Positive Psychology Specialization, University of Pennsylvania, 2018

(Well-being for life. Master strategies and tools that enable individuals and organizations to thrive)

### **Research and Teaching Interests**

Ethics in Healthcare, Managerial Finance and Economics in Healthcare Services Industry, Positive Psychology/Positive Education, Interprofessional Education in Healthcare, Biostatistics and Research Design, Population Health, Managerial Economics; Pharmaceutical Economics, Policy, and Outcomes

### **Primary Appointments-TSU COPHS**

2016-Present Chair, Department of Pharmacy Admin & Administrative Health Sciences, TSU COPHS

2010–Present Associate Professor, Texas Southern University College of Pharmacy and Health Sciences

2004–2010 Assistant Professor, Texas Southern University College of Pharmacy and Health Sciences

### **Adjunct Faculty Appointments**

#### TEXAS MEDICAL CENTER (TMC)

2004-Present University of Texas School of Public Health—Management and Policy Sciences (Graduate)

2002-2016 Texas Woman's University, Houston—Graduate Program in Health Care Administration,

2004-2008 University of Texas School of Nursing—Assistant Professor of Nursing Systems (Adjunct)

2003-2004 University of St. Thomas, Cameron School of Business, Houston, Texas—Adjunct Faculty

### **Positive Education Community (Volunteer)**

2015-Present Regional Education Director, Spiritual Education in Human Values, SSIO, US Region 10 (Texas, Oklahoma, and Arkansas)

### **Administrative/Leadership Roles—Academic/Nonacademic**

#### TSU/COPHS:

2016-Present Chair, Department of Pharmacy Admin & Administrative Health Sciences, TSU COPHS

2013-Present Project Management Lead/Member, COPHS Pharmacy Residency Advisory Team

2012-present Member/Past Chair, COPHS Interprofessional Education Committee

2011-2012 COPHS Interim Assessment Director

2007-Present Past Chair/Member, COPHS Assessment, Evaluation, & Improvement Committee (AEIC)

2013-2016 Chair, Promotion & Tenure Committee, Dept of Pharmacy Practice & Clinical Health Sci

2011-2012 COPHS Interim Assessment Director

2007-Present Member College Executive Committee (as Assessment Chair/Interim Director/Dept Chair)

2005-2012 Co-Chair, COPHS PharmD Program Accreditation Committee (Misc years)

2005-20013 Chair, TSU Institutional Animal Care and Use Committee (IACUC)

#### Texas Medical Center

2005-2007 Team Leader, Houston Health Care Service Research Collaborative (University of Texas School of Public Health, University of Texas Health Science Center, Houston)

2001 – 2003 University Economist, University of Texas Health Science Center at Houston

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## **Awards/Recognitions for Service, Teaching, Research**

*Student Research Poster Award 3<sup>rd</sup> Place*, TSU Research Week, April 2018.

*Ambassador*, National Center for Interprofessional Practice & Education, University of Minnesota, Jan 2016

*“Award of Appreciation”* for 8 years of dedicated service as the chairperson of the TSU Institutional Animal Care and Use Committee (IACUC), TSU Office of Research, Nov 22, 2013

*Teacher of the Year*, College of Pharmacy and Health Sciences, Texas Southern University, 2008.

*Senior Research Fellowship*, Applied Economics, Dept of Ocean Development Fellow, Govt of India, 1984-1986

## **Select Service Activities**

### TSU/COPHS

COPHS Assessment, Evaluation, and Improvement Committee (AEIC), College of Pharmacy and Health Sciences, Texas Southern University, 2007-present

Member, COPHS/PharmD Curriculum Committee, 2007-present

TSU Institutional Animal Care and Use Committee (IACUC), 2005-2013

Member, COPHS Search Committees (Misc. years: COPHS Dean, Associate Dean; Dept Chair, Faculty)

TSU Faculty Delegate, American Association of Colleges of Pharmacy, Alexandria, Virginia, 2009.

### TEXAS MEDICAL CENTER (TMC)

Baylor College of Medicine, Children’s Environmental Health Center Planning Committee, 2003-2006

Houston-Galveston Area Council (H-GAC)/Emergency Trauma Care Policy Council Data Committee, 2004

Texas Medical Center, Parking and Mobility Advisory Council, Houston, 2001-2003

National Academy of Sciences Member, Transportation Research Board, Economics Committee, 1999–2001

## **Student activities/sponsorship/advisors**

TSU PhD student Dissertation Committee Member/Graduate Faculty Representative

TSU COPHS Pharm D student advisor (ongoing)

Rho Chi Honor Society, TSU COPHS faculty member (ongoing)

## **Reviewer and Professional Memberships**

Member, American Colleges of Healthcare Executives, ACHE, 2016-Present

Reviewer, American Journal of Pharmaceutical Education (AJPE), 2010-present

Member, American Association of College of Pharmacy

Member, Texas Pharmacy Congress Assessment Group (2007-2011)

## **Academic Instruction at TSU COPHS**

### Healthcare Administration Graduate and Undergraduate programs

Coordinate and Teach: HSHA 513: Management Statistics (Present)

Coordinate and Teach: HSHA 338: Healthcare Finance and Economics (Present; 2016; 2005-09)

Coordinate and Teach: HSHA 652: Managerial Finance in Healthcare Organizations (2016)

Coordinate and Teach: HSHA 517: Healthcare Economics Fall 2013; 2005-09

### Pharmacy Administration (PharmD Level)

Coordinate and Teach: Economics, Humanistic, Clinical Outcomes/Pharmacoeconomics; 2004-present

Coordinate and Teach: Ethics in Healthcare (PADM 430); 2005-present

Coordinate and Teach: Evidence-Based Research and Biostatistics (PHAR 431/PHAR 442); 2005-present

Precept and Collaborate: Longitudinal Research Rotation with Advanced PharmD students (2005-present)

## **Other Academic Instruction**

*Texas Woman’s University, Department of Health Care Administration, Houston (2001-2016)*—Economics of Health Care / Quantitative Decision Making and Research Design (in Healthcare Admin Graduate Program)

*University of Texas School of Public Health, Houston (2001-2004)*—Intro to Population and Environmental Assessment (in the Graduate/PhD program in Public Health)

*University of St. Thomas Cameron School of Business, Houston (2003)*—Intermediate Microeconomics (MBA pgm)

*University of Iowa, Henry B. Tippie College of Business, (2000-2001)*— Intermediate Microeconomics (MBA pgm)

## **Innovation and Scholarship in Teaching at TSU COPHS**

*Modular redesign of Biomedical Ethics* (Ethics in Healthcare course in Spring 2014)

--Incorporate Interprofessional Education (IPE) module, modify course syllabus, add competencies

--Joint sessions with Health Sciences Bioethics class (*accommodate ~200 students*)

--Highlighted in ACPE Accreditation Report

--Involving Pharmacy, Respiratory Therapy, Health Administration, Clinical Laboratory Science, Health Information Management; , Environmental Health professions students); Case-study format; general abilities and communication skill development (large class application of Peer Assessment Framework);

*Online Course Design and Offering—Healthcare Economics* (Fall 2013)

--Innovative use of Blackboard; Online “Wimba” Classroom; new textbook, lecture, and testing materials

## **Pharmacy Residency/Research Site Development for Healthcare Services Quality/Healthcare Outcomes/ Information Management**

--*San Jose Clinic*, Houston (ongoing with Director of Pharmacy Services & Business Development Director) e

--Research Project Management (Lead) for COPHS Pharmacy Resident

--Project: “Assessing health-related quality of life (HRQoL) in patients with chronic diseases at an urban charity clinic: a pharmacy practice perspective” in collaboration with Shana Robinson (Pharmacy Resident) and Sandy Spurlock (SJC Pharmacy Director), August 2014-July 2015.

## **Interprofessional Education (IPE) faculty development and scholarship activities**

PI on Seed Grant award from TSU Office of Research titled “*Initiating Scholarship in Inter-Professional Education (IPE) at the TSU College of Pharmacy and Health Sciences*”, October 4, 2013.

“National Implementation of TeamsSTEPPS Training; provided by the *Duke University Health System Clinical Education and Professional Development*, at Tulane University, Apr 9-10, 2013 (Certification)

Conducted “Interprofessional Education (IPE) Faculty Training”, Wednesday, Oct 30, 2013, Gray Hall, in collaboration with the COPHS IPE Committee

Conducted “IPE Kickoff--TSU-COPHS Interprofessional Education Luncheon”, April 26, 2013, TSU Sterling Life Center, Tiger Room

## **Recent and Past Grants**

*Principal Investigator*— “Initiating Scholarship in Inter-Professional Education (IPE) at the TSU College of Pharmacy and Health Sciences”, Seed Grant award from TSU Office of Research titled , October 4, 2013-14

*Principal Investigator*—“Effect of off-peak work environments on nursing care” (via Lead Institution Midwestern State University contract: \$10,000; Robert Wood Johnson Foundation’s Interdisciplinary Nursing Quality Research Initiative (INQRI) Total Award: \$299,955; 2008-2010)

*Principal Investigator*—“The Health Effects of Air Toxics and Development of Air Toxics Standards for Houston” via Rice University: \$20,000; Houston Endowment Incorporated, Total Award: \$250,000) September 2005- August 2006).

*Principal Investigator*—“The Impact of Health Care Safety Net Policies and Programs in the Continuity of Medical Care” TSU Seed Grant, through August 31, 2006

*Principal Investigator*—Texas Southern University Seed Grant—“Exploring the Impact of Community Level Influences on College Student Sexual Health Belief and Behaviors: An HBCU Case Study; TSU Seed Grant, February 2005.

Clinical and Translational Science Award (CTSA) Grant Application (*Lead Institution: Methodist Hospital; November 2007, 2008, and 2009 resubmissions*)

*Co-principal Investigator*—Texas Department of Health—State Diabetes System Assessment (with Kennedy, UT School of Public Health, University of Texas Health Science Center, Jan-May 2004; \$80,000)

*Principal Investigator*—United States Department of Transportation/Operation Respond—Evaluation of automated information systems for first responders at hazardous material incidents in transportation; 1995–2001; over \$150,000.

*Co-Principal Investigator*—Iowa Department of Transportation (Iowa DOT)—Transportation Strategies and Land Development Patterns (using transportation system changes to influence urban form); September 1998–2001; \$ 150,000.

*Co-Principal Investigator*—National Academy of Sciences, National Cooperative Highway Research Program (NCHRP 20-29:1,2), National Academy of Sciences—Development of a Computer Model for Multimodal, Multicriteria Benefit Cost Analysis; 1992-1997; \$150,000 and \$200,000.

*Principal Investigator*—Pasadena, Texas and Local Area Emergency Planning Committees (LEPC)—Hazardous materials flow study in Pasadena and other neighboring communities; 1997; \$45,000.

*Principal Investigator*—Texas Department of Transportation (TXDoT)—Economics of Raw Timber Transportation; 1996-1997; \$80,000.

## **Publications**

Mathur, Sondip, Andrew Taylor, Willie Capers II, Aisha Moultry, and Shirlette Milton, “Behavioral Model for the Study of Access to Interprofessional Education”, *iCollaborative*, Association of American Medical Colleges (AAMC); <https://icolaborative.aamc.org/resource/4283>, May 5, 2016

Mathur, Sondip and Andrew Taylor, “*Interprofessional Education (IPE), Active Learning, and General Abilities Development: An Innovative Peer Assessment Application in a Biomedical Ethics Course*”, American Journal of Pharmaceutical Education (AJPE), Manuscript resubmission, ongoing in discussion with editorial board, 2014.

Hamilton, Patti, Gretchen Gemeinhardt, *Sondip Mathur*, Valerie Eschiti, Marie Campbell. “Illuminating Effects of Policies and Procedures”, Conference Paper: *CANS 2010 State of the Science Congress on Nursing Research*, The American Academy of Nursing (AAN), Sept 2010

Hamilton, Patti, *Sondip Mathur*, Gretchen Gemeinhardt, Valerie Eschiti, Marie Campbell. “Expanding What We Know About Off-Peak Mortality in Hospitals”, *Journal of Nursing Administration*, Volume 40 (3), Mar 2010

Lal, Lincy., Mathur, Sondip., Arbuckle, Becky. “Evaluating Medicaid Reimbursement Rates for CNS Drugs by US Geographic Regions”, *Journal of Pharmaceutical Finance, Economics And Policy*, Volume 16 (3), 2007.

Mathur, Sondip K., Carl Hacker, and Lu Ann Aday. “Population Health and Sustainable Development” in *Reinventing Public Health; Toward a Healthy (Re)public*, Book Editor Lu Ann Aday, Jossey-Bass Publishing, John Wiley and Sons, Inc., 2005.

Mathur, Sondip K. and Lu Ann Aday. Decision Making For Rural Sustainability: The Role Of Social Capital In Mediating The Limitations Of Market And Planning Models, *Texas Journal of Rural Health*, Volume XX, No. 4, 2002.

Forkenbrock, David, Sondip Mathur, & Lisa Schweitzer. “*Transportation Investment Policy and Urban Land Use Patterns*,” University of Iowa Public Policy Center, Iowa City, Iowa, ISBN-10:087414-136-2: ISBN-13:978-0-87414-136-8, 2001, 92 pages; (paperback)

Van Huyck, John, Raymond Battalio, Sondip Mathur, Patsy Van Huyck, and Andreas Ortmann. “On the Origin of Conventions: Evidence from Symmetric Bargaining Games,” *International Journal of Game Theory*, 24, 1995, pp. 187-212.

Mathur, Sondip K. and G. Gopal Krishna. “Economics of Commercial Brackishwater Farming: Case Studies in Andhra Pradesh,” *Aquaculture Productivity*, Oxford & IBH Publishing Company, 1991, 269-75.

Subbarao, P.V. and Sondip K. Mathur. “Parameters for Success of Versova Multipurpose Cooperative in Maharashtra,” *Journal of the Indian Fisheries Association*, 10, (1980-81), Issued 1984: 55-60.

Mathur, Sondip K., Atul Jain, and P.V. Subbarao. “Inter-Disciplinary Approach to Aquaculture—With Special Reference to Damdama, Haryana,” *Journal of the Indian Fisheries Association*, 8 & 9, (1978-79), Issued 1984: 37-43.

### **Publications (Research/Technical Reports)**

Mathur S.K. et al. (all authors in alphabetical order), “The Control of Air Toxics: Toxicology Motivations and Houston Implications,” Final Report, *Houston Endowment Inc/Rice University*, <http://ceve.rice.edu>, 10/2006.

Goodman, G. Moseley, K., Mathur, S. Gemeinhardt, G. Wright M., “Return on Investment for Employer Sponsored Nurse Training”, *The Texas Work Source Commission*, (2005).

Mathur, Sondip K. “Evaluation of the Operation Respond Program in a Field Setting,” prepared for the *Operation Respond Institute, Inc., Washington, D.C./University of Iowa Public Policy Center*, October 1998.

Mathur, Sondip K. “Appraisal of the Operation Respond Emergency Information System (OREIS),” *prepared for the Operation Respond Institute Inc., Washington, D.C./University of Iowa Public Policy Center*, April 1998.

Jasek, D., Sondip K. Mathur, Jeffery E. Warner, and Mark Shafer. “Hazardous Materials Commodity Flow Study,” *Pasadena Local Emergency Planning Committee*, Pasadena, Texas, November 1997.

Mathur, Sondip K. & Jeffery E. Warner. “Economics of Raw Timber Transportation: A Feasibility Study,” Research Report No. TX-98/3902-S, *National Technical Information Service (NTIS)*, Springfield, Virginia, Oct 1997.

Roop, Stephen S., Sondip K. Mathur, and M. Muralikrishnan. “Development of a Computer Model for Multimodal, Multicriteria Transportation Investment Analysis,” Interim Report, National Cooperative Highway Research Program (NCHRP), *National Academy of Sciences*, Washington, D.C., March 1997.

Stephen S. Roop and Sondip K. Mathur. “Multimodal Framework for Freight Transportation,” *Searching for Solutions: A Policy Discussion Series*, Exploring the Application of Benefit/Cost Methodologies to Transportation Infrastructure Decision Making, *Federal Highway Administration, U.S. Department of Transportation*, Number 16, July 1996, pp 33-36.

Mathur, Sondip K. “Simulation Analysis of Operation Respond in a Field Setting,” Final Report, *Operation Respond Institute, Inc.*, Washington, D.C., January 1997.

Roop, Stephen S. and Sondip K. Mathur. "Benefit-Cost Evaluation of an Automated Information System for First Responders to Hazardous Material Spills in Railroad Settings," Final Report, *Houston Cooperative Emergency Planning Project*, "Operation Respond," March 1995.

Roop, Stephen S. and Sondip K. Mathur. "Development of a Multimodal Framework for Freight Transportation Investment: Consideration of Rail and Highway Trade-offs," Final Report, National Cooperative Highway Research Program (NCHRP), *National Academy of Sciences*, Washington, D.C., Apr1995.

Roop, Stephen S. and Sondip K. Mathur. "Leasing of TxDOT's Rights-of-Way," Final Report, *Texas Department of Transportation*, November 1993.

### **Papers/Work in Progress**

Mathur, Sondip, Willie Capers II, and Andrew Taylor "Behavioral Model for the Study of Access to Interprofessional Education: Longitudinal Case Application", in progress, April 2018

Mathur, Sondip and Shana Robinson, Health Related Quality of Life and Socioeconomic Value Added Among Patient Groups Being Served at a Charity Clinic at a Major Metropolitan Area, *TSU Pharmacy Practice Residency Program*, San Jose Clinic, August 2014- May 2015.

Mathur, Sondip & Achidi Yango, "Will the Affordable Care Act Mean the End of Free Healthcare Clinics: Applying an Economic Model", *Summer Research Program* Texas Southern University, June 2014 –present

Mathur, Sondip and Andrew Taylor, "*Interprofessional Education (IPE), Active Learning, and General Abilities Development: An Innovative Peer Assessment Application in an Ethics Course*", *American Journal of Pharmaceutical Education (AJPE)*, Manuscript resubmission to be discussed with editors).

Mathur, Sondip, Monica Rasmus, "*Medical Error Reporting Predisposing, Enabling, and Need Factors*, in-progress.

Title: "*The Weekend/Night (Off-Peak) Intensive Care Hospital: Ethnographic Data Identifies An Economic Model of the Firm*"; Manuscript submission discussed with Nursing Economics: The Journal for Health Care Leaders, Jannetti Publications, New Jersey

Title: "*Evaluating Display Panels of Over the Counter (OTC) Gastrointestinal (GI) Medication: Strategic Marketing and Product Differentiation*" (considering submission to Health Marketing Quarterly, Taylor & Francis Group)

"Validating Theories of the Firm: An Ethnographic View of Nursing Practice" (with Patti Hamilton, et al, Midwestern State University)

### **Facilitation of special/select workshops, distinguished visits, off-campus events**

--Lake Olympia Middle School Career Day, in 2011-2013 (participation by COPHS PharmD students and COPHS Office of Student Services)

--Musical Informance by Dana Gillespie (facilitated visit of acclaimed multi-award winning British Blues Hall of Fame singer; in conjunction with TSU Department of Music, Division of Jazz Studies, May 3 2012, The Rhinehart Auditorium)

--Institutional Animal Care and Use Workshop and Training (presenter, Hannah Hall, (several years till 2013)

## Select Presentations/Conferences

*Behavioral Model for the Study of Access to Interprofessional Education*, TSU Research Week Oral/Faculty Presentation, March 28, 2018 (co-presenters: Willie Capers II and Andrew Taylor)

*Texas Southern University Research Week poster presentations* (in collaboration with over 20 COPHS PharmD advanced level students), March 27-28, 2018

Texas Southern University Research Week Faculty Oral Presentation: *“Teaching Respect: A Human Values Approach”*, April 2016.

“Assessing health-related quality of life (HRQoL) in patients with chronic diseases at an urban charity clinic: a pharmacy practice perspective”, *American Pharmacy Association Midyear Conference*, with Shana Robinson and Sandy Spurlock, December 2014.

“Will the Affordable Care Act Mean the End of Free Healthcare Clinics: Applying an Economic Model”, Research Mentor and collaborator, *Summer Research Program* Texas Southern University, July 31, 2014.

Moderator, “Educare Panel—Role of Human Values in Society”, *SAI Events, Loving All and Serving All: Role of Human Values in Society*, Dallas, Texas, May 3 2014.

*Over 20 research poster presentations* (in collaboration with 37 COPHS PharmD APPE students) at the TSU Research Week, April 2014

“First, Do Less Harm—Preventable Events in Hospital Settings”, *International Conference on Healthcare Leadership*, American College of Healthcare Executives (ACHE), Texas Medical Center, Houston, TX, October 25, 2013

2013 *TSU Research Week Research Poster Presentation* (in collaboration with over 30 Advanced PharmD students)

Poster presentation at the 2012 ASHP Midyear Clinical Meeting (Title “Alcohol and Prescription Drug Misuse and its Relation to Motor Vehicle Accidents” with Katherine Tsai, Clarissa Alvarez, Nicolas Yim).

Conference Poster Presentation: “Behavioral Model for Access to Interprofessional Education” (with Andrew Taylor, Willie Capers II, Aisha Morris Moultry, Shirlette Milton)—Conference on Building Your Foundation for Interprofessional Education, Interprofessional Education Collaborative (IPEC) 2012 Institute, Washington DC, May 21-23, 2012.

Several Poster presentations at the 2012 TSU Research Week (in collaboration with COPHS PharmD P4 students)—Awarded Research Week Participation Certificate

Poster Presentation at the 2011 ASHP Midyear Clinical Meeting (Title: *Product Differentiation in OTC Pain Medication*) (in collaboration with PharmD student Mohammad Fahimuddin)

Workshop/Continuing Education (Nursing): “Business Economics Rationale for the Existence of the Off-Peak Hospital”, July 30, 2010, Texas Medical Center, Houston

Texas A&M Health Science Center College of Pharmacy, “Examples of Research and Teaching Scholarship in Social, Behavioral, and Administrative Sciences”, June 14, 2010, Kingsville, Texas

Robert Wood Johnson Foundation, Interdisciplinary Nursing Quality Research Initiative Fourth Annual Meeting—“Effect of off-peak Environments on Nursing Care”, July 14–16, 2009, Princeton.

TSU Research Week 2009—“*Highlighting Over the Counter (OTC) Product Proliferation As A Marketing Strategy: Implications For Patients And Pharmacists* (Leeja Varghese, Pharm D Student; Sondip Mathur, Co-Author and Faculty Advisor)

AACP/AFPC Annual Meetings and Seminars, 2008—“*An Innovative Assessment for Active Student Learning and General Abilities development*” (Poster Presentation: Authors: Sondip Mathur and Chander)

Texas Southern University, Research Week presentation—“Ability and Willingness to Produce Health: Explaining Population Health Disparities”, April 2008

Houston Health Services Research Collaborative Meeting (University of Texas School of Public Health)—“Hurricane Katrina Evacuees- health status and the roles and effectiveness of public policies and the public healthcare system on continuity of care, October 27; May 26, 2006

Texas Southern University, Research Week presentation—“Epidemiology of the Marketplace, April 2006

University of Texas School of Public Health, Houston, Population and Environmental Assessment Lecture Series—“Environmental Economics and Corporate Decision Making”, September 2004

Texas A&M University System, School of Rural Public Health, College Station—“Expanding and Evaluating the Public Health System: Application of Economic Models and Methods”, May 2004

American Public Health Association Annual Meetings, Philadelphia, PA,—“Decision Making For Community Sustainability, November 11, 2002.

Transportation Research Board (National Academy of Sciences) 78<sup>th</sup> Annual Meeting, Washington, D.C.,—“Methods for Assessing the Benefits and Costs of ITS in Regional Transportation Planning” (Session 186), January 12, 1999

Department of Urban and Regional Planning, University of Iowa, Iowa City—“Using Transportation System Changes to Influence Urban Form”, November 1999.

Texas Department of Transportation, Research Management Committee Meetings, Arlington Texas, June 5, 1997—“Alternate Methods to Deliver Raw Timber to Mills”.

National Steering Committee, Chemical Manufacturers Association Headquarters, Washington, D.C.,—“Simulation Analysis of the Operation Respond Emergency Information System.” 2/97, 11/96 and 1995.

Evaluation Process-Planning and Development Workshop, Booz-Allen & Hamilton Inc., Washington D.C.,—“Operational Test Presentations,” December 12-13, 1995.

Conference on Exploring the Application of Benefit-Cost Methodologies to Transportation Infrastructure Decision Making, Tampa, Florida (Federal Highway Administration Office of Policy Development Transportation Studies Division, USDOT, Washington D.C.),—“Multimodal Framework for Freight Transportation Investment,” May 15, 1995.

Shell Industrial Organization Seminar, Department of Economics, Texas A&M University,—“On the Origin of Conventions: Evidence from Symmetric Bargaining Games,” September. 27, 1991.

### **Academic Experience Timeline**

- 2004 – Present TSU College of Pharmacy & Health Science (Asst, Assoc Prof; Department Chair)
- 2001 – 2004 University of Texas School of Public Health, University of Texas Health Science Center at Houston, Management, Policy and Community Health Unit—Assistant Professor
- 2000 - 2001 University of Iowa, Henry B. Tippie College of Business, Department of Economics, Iowa City, Iowa—Assistant Professor (Teaching)
- 1997 - 2000 University of Iowa, Public Policy Center, Iowa City, Iowa— Associate Research Scientist
- 1995 - 1997 Texas A&M University System, Texas Transportation Institute— Associate Research Scientist
- 1994 - 1995 Texas A&M University System, Texas Transportation Institute— Assistant Research
- 1992 - 1994 Texas A&M University System, Texas Transportation Institute—Research Assistant
- 1988 - 1992 Texas A&M University, College Station, Department of Economics, Graduate Assistant,
- 1987 - 1988 Cleveland State University, Department of Economics—Graduate Assistant

**NAME:** SHIRLETTE GLOVER MILTON, PhD, RPh

**COLLEGE ADDRESS:** College of Pharmacy and Health Sciences  
3100 Cleburne Street  
Houston, TX 77004  
713-313-7551, [shirlette.milton@tsu.edu](mailto:shirlette.milton@tsu.edu)

**EDUCATION**

<u>Degree</u>	<u>University</u>	<u>Year</u>	<u>Area</u>
BS	Texas Southern University, Houston, TX	1975	Pharmacy
MS	University of Texas, Austin, TX	1980	Pharmacy
Ph.D.	University of Texas, Houston, TX Graduate School of Biomedical Sciences	1991	Biomedical Sciences

**LICENSURE** Registered Pharmacist, State of Texas, 1975 – Present  
Pharmacy Preceptor Certification, State of Texas, 2001-Present

**RESEARCH INTERESTS**

Teaching and learning effectiveness, health disparities and interprofessional education; Molecular and cellular mechanisms in vascular injury and cell proliferation; Cell and tissue culture models for investigating research problems; Biotransformation, prodrug design, and qualitative chemical structure-activity relationships, which could lead to the discovery of new drugs and therapeutic applications

**ACADEMIC EXPERIENCE**

1/17-current	Interim Dean and Professor, College of Pharmacy and Health Sciences, Texas Southern University
9/15-12/16	Professor of Pharmaceutical Chemistry, College of Pharmacy and Health Sciences, Texas Southern University
10/13-8/14	Interim Associate Dean for Health Sciences, College of Pharmacy and Health Sciences, Texas Southern University
10/11– 9/13	Interim Dean, College of Pharmacy and Health Sciences, Texas Southern University
5/06-10/11	Assistant Dean for Student Services, College of Pharmacy and Health Sciences, Texas Southern University, Houston, TX
9/04-5/06	Interim Assistant Dean for Student Services, College of Pharmacy & Health Sciences, Texas Southern University, Houston, TX
5/00-9/2015	Associate Professor of Pharmaceutical Chemistry, College of Pharmacy and Health Sciences, Texas Southern University, Houston, TX
9/95-8/09	Adjunct Assistant Professor, University of Texas Graduate School of Biomedical Sciences, Houston, TX

- 9/95-7/97 Chair, Department of Pharmaceutical Sciences, College of Pharmacy and Health Sciences, Texas Southern University, Houston, TX
- 3/91-5/00 Assistant Professor of Pharmaceutical Chemistry, Texas Southern University, Houston, TX
- 9/80-8/82 Assistant Professor of Pharmaceutical Chemistry, Texas Southern University, Houston, TX

### **CONSULTANTSHIPS AND PROFESSIONAL SERVICES**

- 2017-2018 Texas Medical Center Advisory Council (also 2011-2013)
- 2017-2018 Texas Medical Center Pharmacy Executives Council (also 2011-2013)
- 2017-2018 Board of Directors, Houston Academy of Medicine, Texas Medical Center (HAM-TMC) Library (also 2011-2013)
- 2017-current Texas Pharmacy Congress (also 2008-2013)
- 2015 Annual BUILDing SCHOLARS Consortium Pipeline Partner Representative, UT ElPaso
- 2015 Journal Reviewer, Lipids
- 2014, 2015 Journal Reviewer, American Journal of Pharmaceutical Education
- 2011-2013 Texas Medical Center Forward Planning Committee
- 2010-2012 Texas Medical Center H1N1 Advisory Group
- 2004 Reviewer, NASA CIPA Grant Program
- 2003-2004 Reviewer, NASA Harriet Jenkins Pre-doctoral Fellowship Program
- 9/94-8/2004 Director of Tissue Culture Core Facility, College of Pharmacy and Health Sciences
- 1995-2000 Adjunct Assistant Professor, University of Texas Graduate School of Biomedical Sciences

### **PROFESSIONAL MEMBERSHPS**

- American Association of Colleges of Pharmacy (1995-Current)
  - Accreditation Council for Pharmacy Education (ACPE) Evaluator Training (2015)
  - Immediate Past Chair, Student Services Personnel Special Interest Group (2012-2013)
  - Chair, Student Services Personnel Special Interest Group (2011-2012)
  - Chair-Elect, Student Services Personnel Special Interest Group (2010-2011)
- Lambda Kappa Sigma International Pharmacy Fraternity (member and faculty advisor, 1973-2017)
- National Pharmaceutical Association (2012-2013)
- Texas Pharmacy Association (2005-2009, 2012-2013)
- Lake Houston Pharmacy Association (2011-2017)
- American Association for the Advancement of Science (1991-2000, 2012- 2013,)
- Texas Association of Advisors for Health Professions (2005-2011)
- American Pharmacists Association (2005-2009)
- Rho Chi Pharmacy Honor Society (1978)

### **COMMUNITY MEMBERSHIPS/AFFILIATIONS**

- 2015-current South Campus Alumni and Associates Network (SOCANN), Tarrant County College, Ft. Worth, TX
- 2005-current Discovery Youth Foundation – Board Member
- 2002-2013 Amigos De Las Americas – Advisory Board Member
- 2000 -current Top Ladies of Distinction, Humble-Intercontinental Chapter (Top Teens of America Mentor, Coordinator of COPHS Mentoring Program)
- 1996-current Alpha Kappa Alpha Sorority, Incorporated – High School Leadership Development Committee Member and Co-Coordinator of College and Career Readiness Seminar hosted by TSU  
COPHS, Health Committee Past Chair, Higher Education Committee Past Co-Chair

1996-2016 March of Dimes Team Leader-TSU COPHS Team placed in the list of Top 100 Teams for Donations from 1996 to 2016

## **FELLOWSHIPS AND HONORS**

8/01-8/03 National Aeronautics and Space Administration (NASA) Administrator's Fellow,  
Cohort 5, Johnson Space Center, Houston, TX  
4/83-3/88 NIGMS MARC Faculty Fellow, University of Texas, Houston, TX  
9/82-3/84 American Foundation for Pharmaceutical Education Fellow, University of Texas, Houston, TX  
1980 Phi Kappa Phi Academic Honor Society  
  
2018 Honoree, Business and Professional Women's Clubs, Inc.  
2017, 2018 Who's Who In Black Houston, Annual Selection  
2007-2013 Who's Who In Black Houston, Annual Selection  
2006-2007 Who's Who Among America's Teachers  
2004-2005 Who's Who Among America's Teachers  
2002-2003 Who's Who Among America's Teachers

## **AWARDS AND PRIZES**

2013 Humanitarian Award, Top Ladies of Distinction for outstanding dedication and commitment to the community  
2002-03 NASA KC-135 Undergraduate Student Flight Opportunity Award, Faculty Advisor  
2001 National Faculty Mentor Role Model Award, Minority Access, Incorporated  
1997 Distinguished Service Award, College of Pharmacy and Health Sciences, Center of Excellence Summer Enrichment Program  
1995 Outstanding Leadership as Department Chairperson, College of Pharmacy and Health Sciences, Texas Southern University  
1988 Minority Travel Award, National Institute of Diabetes and Digestive and Kidney Diseases  
1993 Association of Minority Health Professions Schools (AMHPS) Junior Research Program Travel Award

## **GRANTS/CONTRACTS**

1. Department of Education, Title III-Strengthening Historically Black Graduate Institutions (HBGI), \$1,503,360, 6/1/2018 - 5/31/2019, Milton (PI/Activity Coordinator)
2. Corporate Giving Pharmacy Grant: Milton (PI); From 01/01/2018 to 12/31/2018; \$8,000. Agency: CVS Health; Goal: Scholarships to recruit train and retain URM bilingual undergraduate students for a career in pharmacy.
3. HRSA-18-007: Health Careers Opportunity Program (HCOP), \$3.2 million for 5 years, Submitted 5/29/ 2018 (Co-PI)
4. Department of Education, Title III-Strengthening Historically Black Graduate Institutions (HBGI), \$1,370,585 6/1/2017 - 5/31/2018, Milton (PI/Activity Coordinator)
5. Texas Higher Education Coordinating Board, Health Professions Pathway Program II-Creating a Pathway for Academic and Career Success,\$400,00, submitted 6/1/2016 (Co-PI)

6. Texas Southern University College of Pharmacy and Health Sciences: Maintaining a Legacy to Promote Diversity, TSU Office of Development, Submitted April 2013
7. Houston Independent School District, Project Grad, "Summer Institute in Pharmacy", \$10,000.00, June-July Summer 2005, Principal Investigator.
8. National Aeronautics and Space Administration, NASA Administrators Fellowship Research Grant "The Effect of Microgravity on Vascular Smooth Muscle Cells", \$30,000, Sep 2002-Aug 2003, Principal Investigator
9. National Aeronautics and Space Administration (NASA), Texas Space Grant Consortium, KC-135 Space Opportunity Grant, "Assessment of a Noninvasive Sampling Technique and Promethazine Effectiveness During Simulated Microgravity". 2002-2003, Principal Investigator
10. Research Centers in Minority Institutions (RCMI) Renewal Application, Center Proposal, Independent Project "Molecular Biology Laboratory/Tissue Culture Laboratory Core Facilities", \$751,646, Sept 1999-Aug 2004, Co-Principal Investigator, Director of Cell Culture Core.
11. Research Centers In Minority Institutions (RCMI) Renewal Application, Independent Project "Functional Alterations of Insulin and Type I insulin Growth Factor Receptors in Vascular Injury", \$236,249, Sept. 1994-Aug. 1999, Principal Investigator.
12. Texas Southern University Seed Grant, "Lead Effects on Cellular Function and Insulin Degradation in an Insulin-responsive Cell Type". \$4,600, Dec.1992-Aug. 1993, Principal Investigator
13. Research Centers in Minority Institutions (RCMI), Independent subproject, "Insulin Effects in Response to Lead Exposure, Sep 1992-Aug 1995, Principal Investigator

#### **Revenue-Generating Projects/ Program Management**

1. Walgreens Company, Diversity in Pharmacy Education Award, \$10,000, 2009-2012, Management of Walgreens Diversity Ambassadors Program and Pre-Pharmacy Scholars Program.
2. Fondren Foundation, 2006-2010, Management of Pre-Health Professions Scholars Program and Pharmacy Scholars Program.

#### **PUBLICATIONS**

##### **Book Chapters**

1. Ranganna, K., Mathew O.P, and Milton, S.G. (2014) Regulation of cellular processes by epigenetic mechanisms of butyrate. Butyrate Food Sources, Functions and Health Benefits (Series: Biochemistry and Research Trends), Nova Science Publisher. Ch 13.
2. Ranganna, K, Mathew O.P., Milton, S.G., and Hayes, B. E. (2013) MicroRNAome of vascular smooth muscle cells: Potential for microRNA-based vascular therapies. Current Trends in Atherosclerosis, InTech 7: doi.org/10.5772/54636.

## Journal Articles

- Milton, S.G., Matthew, O.P., Ranganna, K., Yousefipour, Z., and Newaz, M.A. (2015) Acrolein-induced Vascular Smooth Muscle Cells (VSMC) Cytotoxicity: Differential effects of N-Acetylcysteine and Ebselen. *British J Pharm Res*, DOI:10.9734/BJPR/2015/21458, ISSN:22312919, NLM ID:01631759.
- Matthew, O.P., Ranganna, K., and Milton, S.G. (2014) Association of butyrate-induced antioxidant effect and antiinflammatory response in butyrate inhibited vascular smooth muscle cells proliferation. *Pharmaceuticals* 7, doi:10.3390/ph70x000x. ISSN: 1424-8247
- Milton, S.G., Ma J., Wei, B., Robinson, K., Poon, I.O. and Liang, D. (2013) Biotransformation and pharmacokinetics of inositol hexanicotinate in rats. *Xenobiotica Informa* doi:3109/00498254.2012.762591 ISSN:0049-8254 (print), 1366-5928 (electronic).
- Milton, SG, Mathew, O, Yatsu, F and Ranganna, K (2012) Differential cellular and molecular effects of butyrate and trichostatin A on vascular smooth muscle cells. *Pharmaceuticals* 5(9): 925-943, doi: 10.3390/ph 5090925. ISSN: 1424-8247.
- Ranganna, K., Matthew, O.P., Yatsu, F.M., Yousefipour, Z., Hayes, B. and Milton, S.G. (2007) Involvement of glutathione/glutathione S-transferase antioxidant system in butyrate-inhibited vascular smooth muscle cell proliferation. *FEBS Journal* 274:5962-5978.
- Yousefipour, Z., Ranganna, K., Newaz, M.A. and Milton, S.G. (2005) Mechanism of Acrolein-Induced Vascular Toxicity. *J Physiol Pharmacol.* 56:337-353.
- Milton SG, Brantley C, Cormier L, Hubert S, Johnson T, Johnson J, Jones J, Larson N and Putcha L. (2003) Assessment of a noninvasive sampling technique and promethazine effectiveness during simulated microgravity. NASA Technical Document, KC-135 and Other Microgravity Simulations, Summary Report, CR-208936.
- Ranganna K, Yousefipour Z, Yatsu FM, Milton SG and Hayes BE. (2003) Gene expression profile of Butyrate-inhibited vascular smooth muscle cell proliferation. *Mol Cell Biochem*, 254: 21-36.
- Ranganna, K., Yousefipour, Z., Nasif, R., Yatsu, F.M., Milton, S.G. and Hayes, B.E. (2002). Acrolein activates mitogen-activated protein kinase (MAPK) signal transduction pathways in rat vascular smooth muscle cells. *Mol Cell Biochem.* 240:83-98.
- Ranganna, K., Yatsu, F.M., Hayes, B.E., Milton, S.G. and Jayakumar, A. (2000) Butyrate inhibits proliferation-induced proliferating cell nuclear antigen expression (PCNA) in rat vascular smooth muscle cells. *Mol Cell Biochem.* 205:149.
- Bhansali, K.G., Milton, S.G., and Matloubimoghaddam, F. (1997). Complete structural determination of 1,2-benzo-8-(alanyl)-3-phenoxazine by NMR Techniques (HSQC & HMBC). *Texas Journal of Science* 49(4): 315.
- Milton, S.G. and Knutson, V.P. (1993). Insulin receptor characterization and function in bovine aorta endothelial cells: insulin degradation by a plasma membrane. Protease resistant insulin receptor. *J.*

Cell Physiol. 157(2).

15. Milton, S.G. and Hayes, B.E. (1992). Complications of pregnancy, U.S. Pharmacist Supplement, Feb. Issue p.15.
16. Milton, S.G. and Knutson, V.P. (1990) Comparison of the function of the tight junctions of endothelial cells and epithelial cells in regulating the movement of electrolytes and macromolecules across the cell monolayer. J.Cell. Physiol. 144: 498.
17. Billings, R.E. and Milton, S.G. (1986) Conversion of phenytoin to reactive metabolites in rat liver microsomes. In Biological Reactive Intermediates III, Kocsis, J.J., Jollow, D.J., Witmer, C.M., Nelson, J.O. and Snyder, R., eds. Plenum Publishing Corporation, 931-939.
18. Smith, R.V., Milton, S.A.G. and Davis, P.J. (1981) Microbial models of mammalian metabolism. O-dealkylation of para-alkoxybiphenyls. Appl. Environ. Microbiol., 44: 149- 152.
19. Smith, R.V., Davis, P.J., Clark, A.M. and Milton, S.G. (1980) Hydroxylations of biphenyl by fungi J., Appl. Bacterial. 49: 65-73.

#### **SCIENTIFIC ABSTRACTS/PRESENTATIONS (selected)**

1. Ranganna K, Mathew OP, Milton S, Thilagavathi R, Selvam C. (2018) Identification of Novel Scaffold for PIM1 Kinase Inhibition by Ligand Based virtual screening, FASEB J. 32, 1\_supplement, lb.100.
2. Logue, J. and Milton, S.G. (2015) Will an OTC statin be safe and efficacious for the US general public? Texas Southern University Research Week.
3. Ranganna, K., Mathew, O., Milton, S. (2014) Link between antioxidant effect and antiinflammatory response in butyrate arrested vascular smooth muscle cells (VSMC) proliferation, 2014 Experimental Biology Annual Meeting.
4. Le, Dorothy and Milton, S.G. (2014) Statins for everyone: should statins become available for “over-the-counter” use?, Texas Southern University Research Week.
5. Milton, S.G., Mathew, Omana and Ranganna, Kasturi., (2012) Molecular analysis of differential effects of butyrate and trichostatin A on vascular smooth muscle cells, 13<sup>th</sup> RCM International Symposium on Health Disparities, San Juan, Puerto Rico
6. Mathew, O., Milton, S.G., and Ranganna, K. (2012) Involvement of P13K/AKT Pathway in Histone Deacetylase Inhibitors Arrested Vascular Smooth Muscle Cell (VSMC) Proliferation, 13<sup>th</sup> RCM International Symposium on Health Disparities, San Juan, Puerto Rico
7. Ranganna, K., Mathew, O, Milton, S. and Yatsu, F. (2012) Influence of Epigenetic Histone Modifiers on PTEN/P13K/Akt signaling in Vascular smooth Muscle Cells, 2012 Experimental Biology Annual Meeting
8. Ranganna, K., Yousefipour, Z., Mathew, O.P., Yatsu, F.M., Milton, S.G., and Hayes, B.E. (2004) Involvement of Anti-Oxidant System in the Arrest of Vascular Smooth Muscle Cell Proliferation by Butyrate. American Society for

Biochemistry and Molecular Biology Annual Meeting and 8<sup>th</sup> IUBMB Conference, Boston, MA.

9. Milton, S.G. (2003) Assessment of Promethazine Effects and Sampling Under Microgravity, American Association of Colleges of Pharmacy Annual Meeting, Minneapolis, MN.
10. Milton, S.G. (2003) My NAFP Experience: A Partnership with Pharmacy and Johnson Space Center, NASA Administrator's Fellowship Symposium, Washington, D.C.
11. Milton, S.G., Yousefipour, Z., Ranganna, K., Newaz, M.A., and Hayes, B.E. (2002) Acrolein Effects on Vascular Responsiveness, RCMI Symposium, Honolulu, Hawaii
12. Ranganna, K., Yousefipour, Z., Newaz, A., Yatsu, F.M., Milton, S.G. and Hayes, B.E. (2002) Methcnism of Acrolein-Induced Activation of Mitogen-Activated Protein Kinases in Rat Vascular Smooth Muscle Cells, RCMI Symposium, Jackson State University, Jackson, MI
13. Yousefipour, Z., Ranganna, K., Hayes, B.E., Oyekan, A. O. and Milton, S.G. (2002) Vascular Effects of Acrolein in Rats, Experimental biology, New Orleans, LA

#### **EDUCATIONAL PRESENTATIONS/PARTICIPATION**

1. Kennedy, K; Maldonado, W; Milton SG; Morgan, J and Petrelli, HMW. (2018) "Hurricane Preparedness and Contingency Planning: Be Ready Today for What May Happen Tomorrow, American Association of Colleges of Pharmacy Annual Meeting, Boston, MA, July 21-25
2. Milton, S.G., (2018) Pharmacy Deans Town Hall Panel, Continued Professional Education Presentation, Texas Society of Health Systems Pharmacists Annual Meeting, Woodlands, TX
3. Milton, S.G., (2017) Pharmacy Deans Town Hall Panel, Continued Professional Education Presentation, Texas Society of Health Systems Pharmacists Annual Meeting, Galveston, TX
4. Milton, S.G. (2015) Use of a common reading for teaching bioethics, cultural sensitivity and learning beyond the classroom, Annual Southwestern Business Administration Teaching Conference, Texas Southern University.
5. Milton, S.G. (2014) Community Engagement to Prepare Youth for Health Promotion and Advocacy, American Association of Colleges of Pharmacy Annual Meeting, July 26-30, Grapevine, TX.
6. Kaisand, R. and Milton, S.G. (2014) An interprofessional activity with health professions students to increase awareness of health disparities, bioethics and the role of health professionals, Texas Southern University Summer Undergraduate Research Program.
7. Vera, M. and Milton, S.G. (2014) A profile of Hispanics at TSU COPHS and the impact on TSU's legacy: an untold story, Texas Southern University Research Week.
8. Monroe, J. and Milton S.G., (2014) A community outreach activity with adolescents to increase awareness of health disparities, bioethics and the role of health professionals, Texas Southern University Research Week.
9. Milton, S.G., (2012) How student affairs professionals can work more collaboratively with other administrative staff and faculty, American Association of Colleges of Pharmacy Student Affairs and Experiential Education Workshop (workshop moderator as Immediate Past Chair of Student Services Special Interest Personnel), September 16-19, San Antonio, TX

10. Milton, S.G., (2012) Pharmacy Deans Town Hall Panel, Continued Professional Education Presentation, Texas Society of Health Systems Pharmacists Annual Meeting, April 13-14, Dallas, TX
11. Ebeid, A., Pounds, K. and Milton, S.G., (2012) Evaluation of an Intervention to Improve Student Perception of Interdisciplinary Education, American Association of Colleges of Pharmacy, July 14-18, Kissimmee, FL.
12. Petrelli, H. M. W., Morgan, JA, Milton, S.G. and Boyce E. G., (2011) Shepherding the Flock: Identification and Intervention of the Challenging Student. 2011 Annual Meeting of the American Association of Colleges of Pharmacy, July 9-13, San Antonio, TX
13. Milton, S.G. (2011) Pharmacy Deans Panel, Texas Association of Advisors for the Health Professions, Galveston, TX. Feb
14. Milton, S.G. (2010) Critical Thinking Skills, TSU Honors College Seminar, Texas Southern University, March
15. Milton, S.G. (2009) Preparing for a Career in Pharmacy and the Health Sciences, Alpha Kappa Alpha Undergraduate Chapter, University of Houston Downtown Campus, February.
16. Milton, S.G. (2008) Prescription for Success in College Preparation, Top Teens of America, Houston, TX, September
17. Milton, S.G. (2007) Panel Participation-Preparing for a Career in Pharmacy, National Association of Minority Medical Educators (NAMME) Southern Region Conference, Houston, TX, March
18. Milton, S.G. (2005) Careers In Pharmaceutical Sciences, Annual Symposium on Career Opportunities in Biomedical Sciences, Anaheim, CA, March.
19. Hayes, B.E. and Milton, S.G. (2003) Collaborating to Succeed In Dynamic Times, American Association of Colleges of Pharmacy, Minneapolis, MN, July.
20. Milton, S. G. and Hayes B.E. (1998). A semi-integrated course in pathophysiology, pharmacology and medicinal chemistry. Annual Meeting of the American Association of Colleges of Pharmacy, Snowmass, CO.
21. Milton, S.G. (1997). Development of a Special Problems Course in Pharmaceutical Chemistry. Presented at the annual meeting of the American Association of Colleges of Pharmacy, Indianapolis, IN.

#### **CONFERENCES PLANNED/ WORKSHOPS/ PROGRAM PARTICIPATION**

2015	Interprofessional Case Study Participation with University of Texas Medical Branch (UTMB), Galveston TX. (Coordinator)
2006-2011	Annual Symposium on Career Opportunities in Biomedical Sciences, Association of Minority Health Professions School (Hosted April 2006, 20 <sup>th</sup> Anniversary Symposium)
2006-2011	Summer Academy, Coordinated Summer Preparatory Program for entering first professional year pharmacy students, TSU COPHS

- 2004 Mini Health Summit, in partnership with the National Medical Association
- 1997 Organizer/Presenter, Tissue Culture Workshop, College of Pharmacy and Health Sciences, Texas Southern University
- 1996 Organizer, Molecular Biology Workshop, College of Pharmacy and Health Sciences, Texas Southern University
- 1995 Organizer/Presenter, Tissue Culture Workshop, College of Pharmacy and Health Sciences, Texas Southern University

## **ACADEMIC INSTRUCTION**

Teaching responsibilities include the classes listed below at pre-professional, professional and graduate levels. Participation in a significant number of workshops and seminars sponsored by the TSU Teaching and Learning Center (TLEC) and College Certificate of Teaching for Health Professionals Program courses have enhanced course development and revisions

### 2016 Curriculum

PHAR 111/112 Pharmacy Orientation  
 PHAR 211 Pharmacy Applications  
 PHAR 530 Principles of Drug Action I \*  
 PHAR 520 Integrated Laboratory I \*  
 PHCH 410 Introduction to Medicinal Chemistry  
 PHAR 503 Pharmacotherapy IIA: Endocrine System Disorders  
 PHAR 716 Research Seminar I  
 PHAR 779 Academic Pharmacy (Advanced Pharmacy Practice Experience)  
 Summer Academy

\*NOTE: Courses coordinated and taught as an integrated unit with the following Pharmacotherapy courses taught by pharmacy practice faculty: PHAR 504, Pharmacotherapy IA: Nervous Systems Disorders and PHAR 501, Pharmacotherapy IB: Renal System

### Curriculum Prior to 2016

PHAR 111/112 Pharmacy Orientation  
 PHAR 211 Pharmacy Applications  
 PHAR 438 Principles of Drug Action I  
 PHAR 418 Principles of Drug Action Lab  
 PHCH531/532 Pharmaceutical Chemistry III/ IV  
 PHAR 640 Pharmacotherapy III-Immune System Disorders and Infectious Diseases  
 PHARM 601 Pharmacy Special Problems  
 PHAR 643 Pharmacotherapy VI-Endocrine System Disorders  
 PHAR 771 –Pharmacy Seminar/Longitudinal Research  
 PHAR 779 Academic Pharmacy Rotation (Advanced Pharmacy Practice Experience)  
 PHS 800 Bioethics (Graduate level, Guest lecturer)  
 Summer Academy -Critical Thinking and Student Success

## **TRAINING OF GRADUATE/PROFESSIONAL/UNDERGRADUATE STUDENTS**

Zivar Yousefipour, Ph.D., Environmental Toxicology, August 2003, “Mechanism of Acrolein-Induced Vascular Toxicity”, Major Advisor

Brian Jordan, PhD 2017, Pharmaceutical Sciences, Advisory Committee Member

Charlotta Mock, PhD 2017, Pharmaceutical Sciences, Advisory Committee Member

Marian Gray, M.S. 2017, Pharmaceutical Sciences, Advisory Committee Member

Payton, Sylvia, PhD 2017, English Literature, Graduate School Committee Member Representative

Nezhla Radmand, PharmD 2018, Longitudinal Research Project Advisor

Mahbubu Matovu, PharmD 2018, Longitudinal Research Project Advisor

Malika Davis, PharmD 2017, Longitudinal Research Project Advisor

Okecha, Brian, PharmD 2016, Longitudinal Research Project Advisor

Dave, Badal, PharmD 2016, Longitudinal Research Project Advisor

Jared Logue, PharmD 2015, Longitudinal Research Project Advisor

Jason Monroe, PharmD 2014, Longitudinal Research Project Advisor.

Dorothy Le, PharmD 2014, Longitudinal Research Project Advisor

Manuel Vera, PharmD 2014, Longitudinal Research Project Advisor

Robert Kaisand, Respiratory Therapy Student 2014, Summer Undergraduate Research Program Advisor

**Note:** Served on ten dissertation committees from 1992-99, including 3 PhD, 6 MS and 1 EdD

#### **CURRENT/PAST COLLEGE/UNIVERSITY/PROFESSIONAL SOCIETY COMMITTEES**

University Founder’s Day Committee (2018)

Ex-Officio Member- Assessment, Evaluation and Improvement Committee, COPHS (2017-2018)

Faculty Mentor-University Research Week (Spring 2015, Spring 2014)

Faculty Mentor-University Summer Research Program (Summer 2014)

Past Member- University Radiation Safety Committee, TSU

Past Member- University Graduate Handbook Revision Committee

Past Member-University Graduate Research Assistantship Selection Committee, Research Centers in Minority Institutions

Co-Chair-College Interprofessional Education Committee (2014 current appointment)

Chair- College Scholarship and Awards Committee, COPHS (1993-2012)

Co-Chair- College Events Committee (1993-2012)

Member- Pharm. D. Admissions and Academic Standards Committee, COPHS

Member- Admissions and Academic Standards Subcommittee on Academic Progression

Member- MS/Ph.D. Advisory Committee, COPHS

Member, Graduate Education and Research Committee, COPHS (2004-2008)

Ex-Officio Member- Assessment, Evaluation and Improvement Committee, COPHS (2011-2013)

Past Member- Curriculum Committee, COPHS

Past Member- Introductory Pharmacy Practice Experiences (IPPE) Committee

Past Member- First Professional Year Formative Examination Committee

**Aisha Morris Moultry, Pharm.D., M.S.**

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**Education and Licensure**

**Doctor of Pharmacy Degree, Cum Laude**

Texas Southern University College of Pharmacy and Health Sciences  
Houston, Texas, May 2000

**Master of Science Degree in Health-System Pharmacy Administration**

The Ohio State University College of Pharmacy  
Columbus, Ohio, June 2003

**American Society of Health-System Pharmacists Pharmacy Practice Residency  
(PGY1/PGY2 with emphasis in pharmacy administration)**

Riverside Methodist Hospital  
Columbus, Ohio, July 2003

**Academic Leadership Fellows Program**

American Association of Colleges of Pharmacy  
Alexandria, Virginia, July 2015

**Texas State Board of Pharmacy, Registered Pharmacist, #39579, October 2000**

**Ohio State Board of Pharmacy, Registered Pharmacist, #03-2-24890, August 2001**

**American Pharmaceutical Association Medication Therapy Management Certificate, August 2018**

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**Leadership/Management Experience**

**Associate Dean of Academic Affairs**

**Oct 2016 – present**

Texas Southern University, Houston, Texas Southern University  
College of Pharmacy and Health Sciences

- Oversee curricular implementation across all college programs including: pharmacy, clinical laboratory science, environmental health, health administration, and health information management
- Facilitate accreditation self-studies and site visits for the pharmacy, clinical laboratory science, environmental health, health administration, and health information management programs
- Monitor student progression throughout all degree programs
- Hire staff for and establish a Teaching, Enrichment, Assessment and Mentorship (TEAM) Center to support faculty teaching and student learning
- Develop programming during the summer and academic school year to support students who are academically at-risk

- Oversee the administration of formative and summative exams throughout the pharmacy program
- Supervise, evaluate and assist in the professional development of Department Chairs
- Serve in the capacity of the Dean in the absence of the Dean
- Establish a co-curricular program for the pharmacy program
- Ensure faculty receive development needed to facilitate student learning
- Review faculty workload and ensure reports are submitted
- Review faculty evaluations and ensure reports are submitted
- Work with Department Chairs to ensure faculty compliance with University guidelines
- Review assessment data and implement changes to the curriculum as needed

**Interim Associate Dean for Clinical and Administrative Services**

**Sep 2014 – Sep 2016**

Texas Southern University, Houston, Texas

College of Pharmacy and Health Sciences

- Direct management of clinical and administrative practice of tenure and non-tenure track clinical and administrative faculty
- Management and guidance of faculty to implement related simulated laboratory and experiential courses in the curriculum set forth by the Curriculum Committee and Associate Dean for Academic Affairs
- Administrative oversight of all clinical and administrative programs offered by College faculty at affiliated and internal practice sites
- Lead the development of an interdisciplinary health center that is anchored by pharmacist disease state management services for faculty to train students
- Provide direction to the Interprofessional Education Committee in the coordination of IPE simulation activities and development of external partnerships with other health profession schools
- Led the establishment of a 20,000 sq ft interdisciplinary simulation lab, including pharmacy, respiratory therapy, clinical laboratory science, health information management, health administration students, in addition to other disciplines external to the College
- Managed the renovation of 60,000 sq ft 3-story building for all clinical and administrative degree programs

**Interim Assistant Dean for Student Services**

**Nov 2011 – Aug 2014**

Texas Southern University, Houston, Texas

College of Pharmacy and Health Sciences

- Oversee day-to-day operations in the Office of Student Services with services student support services for approximately 1,100 students in pre-pharmacy, pharmacy, health administration, health information management, clinical laboratory science, respiratory therapy, and environmental health degree programs
- Facilitate registration, advising, admissions, and graduation process for all students
- Meet with student leaders and class representatives to provide updates of College activities and facilitate resolution of student concerns

- Ensure the College is abreast of and compliant with accreditation standards as it relates to student services
- Provide oversight to and approve student travel
- Establish partnerships with middle schools, high schools, and community colleges to develop a pipeline for students to enter the College
- Establish programs to improve student recruitment and retention
- Engage pre-pharmacy students in activities to help prepare them for pharmacy school
- Organize and facilitate identification of students for scholarships
- Develop programs that improve student progression in the pharmacy program
- Organize activities/programs that engage students, faculty, staff, and alumni
- Seek funding opportunities to support student services operations
- Develop and oversee implementation of a comprehensive advising and career counseling program
- Recruit, interview, and hire office staff as necessary (Director of Academic Advising and Counseling and Director of Student Services)
- Serve as ex-officio member of the Admissions and Academic Standards Committee, Assessment, Evaluation, and Improvement Committee, and the Professional Student and Faculty Relations Committee

**Inpatient Pharmacy Operations Manager**

**Mar 2004 – Jun 2007**

Harris County Hospital District, Houston, Texas

- Served as pharmacy supervisor for Quentin Mease Community Hospital
- Maintained pharmacy operations at Quentin Mease Community Hospital
- Maintained a pharmacy management advance pharmacy practice site for fourth year professional pharmacy students
- Served on departmental and hospital administration committees
- Attended and participate in various pharmacy management meetings
- Ensured the pharmacy was current with the Joint Commission on Accreditation of Healthcare Organizations standards by implementing programs that will improve patients' quality of care

**Professional Teaching/Education Experience**

**Professor of Pharmacy Practice and Administration (tenured) Sep 2016 – present**

**Associate Professor of Pharmacy Practice (tenured) Sep 2010 – Aug 2016**

**Assistant Professor of Pharmacy Practice Jul 2003 – Aug 2010**

Texas Southern University, Houston, Texas

College of Pharmacy and Health Sciences

- Serve as course coordinator for Pharmacy Management focusing on basic management principles
- Serve as course coordinator for the Medication Therapy Management course
- Serve as course coordinator for the Professional Development course
- Served as course coordinator for Pharmacotherapy VI – Endocrine System Disorders

- Served as course co-coordinator for Pharmacoeconomics and Outcomes focusing of pharmacoconomics and policy
- Served as course co-coordinator for Drug Information and Literature Evaluation focusing on evaluation of clinical trials and literature evaluation
- Provide lectures in Professional Communications and Patient Counseling, Prescription Practice, and Introduction to Public Health
- Serve on various College committees including Curriculum, Comprehensive Exam, and Assessment, Evaluation and Improvement, Departmental Promotion and Tenure Committee
- Serve as faculty advisor for local student chapters of the Student Society of Health-System Pharmacists, Rho Chi Pharmacy Honors Society, and Lambda Kappa Sigma International Professional Pharmacy Fraternity
- Served as faculty delegate for the American Association of Colleges of Pharmacy, United States Pharmacopeia and Texas Medical Center Clinical Pharmacists Taskforce
- Assess student abilities and evaluate performance while providing career development counseling service in a proactive effort to advance learning

### **Pharmacy Work Experience**

#### **Clinical Adjunct Faculty**

**Aug 2008 – Dec 2011**

Harris County Hospital District, Houston, Texas

- Served as support to clinical pharmacy administration on ongoing departmental projects
- Initiated clinical administrative projects that will benefit the pharmacy department
- Maintained a clinical pharmacy administration advance pharmacy practice experience site for fourth year professional pharmacy students
- Attended and participated in various pharmacy management meetings

#### **Pharmacy Practice Resident**

**Jul 2001 – Jun 2003**

Riverside Methodist Hospital, Columbus, Ohio

- Provided pharmacokinetic consults and made dosing adjustments based on patient renal function
- Performed secretarial functions associated with preparation for the Pharmacy and Therapeutics Committee, formulary subcommittee, and pharmacy/nursing subcommittee (i.e., develop meeting packets, agendas, record and prepare meeting minutes)
- Met with pharmaceutical drug representatives to discuss potential formulary additions
- Provided drug information to the department and hospital through the development of drug monographs and staffing of the Drug Information Center
- Instituted quality improvement principles to improve pharmacy and hospital operations
- Provided education to physicians and other hospital staff about medication safety improvement efforts
- Worked with Investigational Drug Pharmacist to track clinical drug studies
- Performed various pharmacy management duties associated with management positions including: Clinical Pharmacy Manager, Director of Pharmacy, Quality Assurance Manager
- Performed clinical duties associated with clinical pharmacist positions in the areas of: Nephrology, Cardiology Psychology, Neurology

- Made adjustments to patient therapy based on assessment of clinical status in the Anticoagulation Clinic and Congestive Heart Failure Clinic

### **Part-time Floater Pharmacist**

CVS Pharmacy, Houston, Texas

Dec 2007 – Jun 2012

Walgreens, Houston, Texas

Feb 2001 – Jul 2001

- Reviewed, filled, and dispensed prescriptions
- Reduced verbal scripts to writing and conducted drug utilization reviews
- Adhered to highest standards of quality assurance and compliance to all state and federal guidelines
- Proactively worked with wholesalers and communicated inventory needs with vendors and pharmaceutical drug representatives
- Effectively provided patient counseling regarding medications, side effects, and nutritional requirements
- Worked closely with Pharmacy Manager in inventory management, billing/insurance, and maintaining proper workflow

### **Pharmacy Graduate Intern**

Rite-Aid, Lexington, Kentucky

Sep 2000 – Feb 2001

Walgreens, Houston, Texas

May 2000 – Aug 2000

- Performed duties under the direct supervision of a Registered Pharmacist with experience encompassing drop-off/pick-up window, entering new prescriptions, patient counseling
- Maintained invoice and inventory information
- Provided extensive customer service including answering questions and handling special requests
- Served as liaison between patients and insurance companies, as well as physicians
- Provided supervised counseling regarding prescription and over-the-counter drugs

## **Research Experience**

### **AHRQ Health Care Innovations Exchange Learning Community on Medication Therapy Management for At-risk Populations**

**August 2014 – September 2016**

Department of Health and Human Services/Westat, Inc.

Goal: Bring together representatives from various federally qualified health care centers to learn more about how to implement medication adherence strategies and integrate pharmacists into interprofessional care teams, and how to assess and measure improvements resulting from the intervention.

Role: Consultant/Learning Community Champion

Colleagues: Uche Anadu Ndefo, PharmD, BCPS, Portia Davis, PharmD

### **The Establishment of a Health Professions Pathway Program to Enhance Recruitment and Retention of Minority Students**

**September 2014 – September 2016**

Texas Southern University

\$150,000 grant from Texas Higher Education Coordinating Board

Goal: Establish a Health Professions Pathway Program (HPPP) to increase the likelihood of underrepresented minorities being accepted into the pharmacy and respiratory therapy professional programs and establish a retention program to support students in the pharmacy, respiratory therapy, and dietetics programs.

Role: Principal Investigator

Colleague: Roddrick D. Jones, PhD

### **Health Professions Pathway Career Center (HPPCC)**

**September 2014 – September 2016**

Texas Southern University

\$400,000 grant from Texas Higher Education Coordinating Board

Goal: Establish a Health Professions Pathway Career Center (HPPCC) to broaden the educational and career pathways for underrepresented minority health professionals from two-year associate programs to pursue a Bachelor of Science (BS) in Clinical Laboratory Science, Health Administration or Respiratory Therapy

Role: Co-Principal Investigator

Colleague: Renard Thomas, PhD

### **Patient Centered Collaboration 2 – Analysis of Community Engagement, Dissemination, and Adoption Efforts**

**September 2012 – September 2013**

Texas Southern University

\$25,000 subcontract for Westat (Department of Health and Human Services – Office of Minority Health)

Goal: Evaluate the community engagement methods used in the Patient Centered Care Collaboration to Improve Minority Health through key informant interviews and focus groups

Role: Principal investigator

Colleagues: Ivy Chui-Poon, PharmD, BCPS, Kimberly Pounds, DrPH

### **Managing Medication Adherence in Elderly African American Hypertensive Patients in Their Home**

**September 2010 – September 2013**

Texas Southern University

\$200,000 grant from Centers for Medicare and Medicaid Services

Goal: Reduce health disparities in blood pressure control by improving medication adherence among the African American Medicare beneficiary population age 65 years and older by improving blood pressure control, medication adherence, and hypertension knowledge.

Role: Co-investigator

Colleagues: Ivy Chui-Poon, PharmD, BCPS, Kimberly Pounds, DrPH

### **Patient Centered Care Collaboration to Improve Minority Health**

**June 2010 – September 2013**

Texas Southern University

\$300,000 subcontract from Westat (Department of Health and Human Services – Office of Minority Health)

Goal: Evaluate the effectiveness of evidence-based practices used to improve rates of medication adherence through information dissemination among diabetic and hypertensive African-American, Asian American, and Hispanic residents housed in senior living facilities located in the Greater Houston Area.

Role: Principal investigator

Colleagues: Ivy Chui-Poon, PharmD, BCPS, Kimberly Pounds, DrPH

**Medication Management**

**Oct 2005 – Oct 2007**

Texas Southern University

\$120,000 City of Houston Area Agency on Aging Medication Management Program

Goal: Counsel elderly patients in their homes on the appropriate use of their medication and on emergency preparedness.

Role: Lead pharmacist/co-investigator

Colleagues: Bobbie Henderson, PhD, Ivy Chui-Poon, PharmD, BCPS, CGP

**Exploring the Impact of Community Level Influences on College Student Sexual Health Beliefs and Behaviors: An HBCU Case Study**

**Feb 2005 - present**

Texas Southern University

\$12,200 seed grant funding received from Texas Southern University

Role: Co-investigator

Colleagues: Sondip Mathur, PhD, Andrew James, MS, DrPH, JD, LLM

**National Survey of Quality Assurance Activities for Pharmacy-Prepared Sterile Products**

**Jun 2002 – Nov 2002**

The Ohio State University

\$3,800 grant funding received from American Society of Health-System Pharmacists

Role: Co-investigator

Colleagues: Philip J. Schneider, MS, FASHP, Craig A. Pedersen, PhD, Jay Mirtallo, MS, RPh, BCNSP

**Peer-reviewed Publications**

Ndefo UA, Moultry AM, Davis PN, Askew R. Provision of medication therapy management by pharmacists to patients with type-2 diabetes mellitus in a federally qualified health center. *P T*. 2017 Oct; 42(10).

Moultry AM. Advocating for pharmacy: what can you do. *J Pharma Care Health Sys* 2017, 4:2 doi: 10.4172/2376-0419.1000e144.

Asbill S, Moultry AM, Policastri A, Sincak CA, Smith LS, Ulbrich TR. Debating the effectiveness and necessity of tenure in pharmacy education. *Am J Pharm Educ.* 2016; 80 (6) Article 94.

Moultry AM, Pounds K, Poon I. Managing medication adherence in elderly hypertensive patients through pharmacist home visits. *Consult Pharm.* 2015; 30:710-19.

Moultry AM. Incorporating interprofessional simulated exercises into pharmacy education. *J Pharma Care Health Sys.* 2015, 2: e130. doi:10.4172/2376-0419.1000e130.

Pounds K, Offurum K, Moultry AM. First year pharmacy students as health coach in the management of hypertension. *Pharmacy Education.* 2015; 15 (1) 111 – 115.

Moultry AM. Pharmacy: An evolving profession without the status. *J Pharma Care Health Sys* 2014, 1:e117. doi:10.4172/2376-0419.1000e117.

Koffi C, Wang C, Gao Y, Moultry AM. Perceived value of pharmacist interns in a culturally adapted community program. *J Pharma Care Health Sys.* 2014. S1-008. doi:10.4172/jpchs.S1-008.

Moultry AM. A mass merchandiser's role in enhancing pharmacy students' business plan development skills for medication therapy management services. *Am J Pharm Educ.* 2011;75(7): Article 133.

Moultry AM, Godley CB, Wanami M. A review of peripherally acting mu-opioid receptor antagonists. *Formulary* online. Posted 02/01/11. Available at: <http://formularyjournal.modernmedicine.com/formulary/article/articleDetail.jsp?id=705809>.

Moultry AM, Wilmer SR. Therapeutic interchange practices among Texas Medical Center institutions. *Hosp Pharm.* 2009;44:672-79.

Moultry AM, Poon IO. The use of antidepressants for chronic pain. *US Pharm.* 2009;34(5):26-34.

Meschack A, Moultry AM, Hu S, McAlister AL. Smoking cessation counseling practices of Texas pharmacists. *J Community Health.* 2009;34:231-38.

Moultry AM, Poon IO. Perceived value of a home-based medication therapy management program for the elderly. *Consult Pharm.* 2008; 23:877-85.

Moultry AM, Eaton A, Che S. A pharmacotherapeutic review of treatment options for infertility in women. *Formulary.* 2005; 40:329-41.

Morris AM, Schneider PJ, Pedersen CA, Mirtallo JM. National survey of quality assurance activities for pharmacy-compounded sterile preparations. *Am J Health-Syst Pharm.* 2003; 60:2567-76.

### Featured Publications

The AHRQ Health Care Innovations Exchange Medication Therapy Management Learning Community. Implementation of a Medication Therapy Management Intervention in Ambulatory Care Settings: Experiences and Lessons Learned From the MyRx Pilot. Available at: [https://innovations.ahrq.gov/sites/default/files/experiences\\_and\\_lessons\\_learned\\_from\\_the\\_myrx\\_pilot.pdf](https://innovations.ahrq.gov/sites/default/files/experiences_and_lessons_learned_from_the_myrx_pilot.pdf). Accessed Sep 14, 2016.

AHRQ Health Care Innovations Exchange. Convening a Learning Community to Advance Medication Therapy Management for At-Risk Populations. Available at: <https://innovations.ahrq.gov/perspectives/convening-learning-community-advance-medication-therapy-management-risk-populations>. Accessed Sep 14, 2016.

Drug Topics. Pharmacists Take MTM to Seniors in Their Homes. Interview about previous work. Available at: <http://drugtopics.modernmedicine.com/drug-topics/news/pharmacists-take-mtm-seniors-their-homes>. Accessed Jan 5, 2016.

AHRQ Health Care Innovations Exchange. Culturally Tailored Pharmacist Home Visits and Educator-Led Group Sessions Increase Medication Adherence and Reduce Blood Pressure for Seniors with Hypertension and Diabetes. Available at: <https://innovations.ahrq.gov/profiles/culturally-tailored-pharmacist-home-visits-and-educator-led-group-sessions-increase>. Accessed Oct 21, 2014.

American Pharmacists Association, American Association of Colleges of Pharmacy, Moultry AM as submitter. Development and implementation of curricula strategies in medication therapy management by colleges and schools of pharmacy: summary report of submissions. December 2011.

### Professional Oral Presentations

*"My Rx Evaluation"*

AHRQ Health Care Innovations Exchange: Promoting Medication Therapy Management for At-Risk Populations Learning Community Medication Therapy Management Bootcamp, Houston, TX, April 2016

*"Engaging Learning Communities to Improve Health Care: Insights from the AHRQ Health Care Innovations Exchange"*

Agency for Healthcare Research and Quality, October 2015

*"Identifying and Examining the Factors Causing Nonadherence: Issues, Consequences, and Strategies for Overcoming Barriers to Medication Adherence"*

MTM and Medication Adherence Innovations Summit, Nashville, TN, October 2015

*"Year 1 Snapshot of the Medication Therapy Management Learning Community"*

AHRQ Health Care Innovations Exchange: Promoting Medication Therapy Management for At-Risk Populations Learning Community In-Person Meeting, Houston, TX, September 2015

*"Goals Are Dreams with Deadlines: Using SWOT Analysis, Goal Setting and Personal Commitment to Advance Your Career!"*

American Association of Colleges of Pharmacy Annual Meeting, National Harbor, MD, July 2016

*"Tenure is Outdated Debate"*

American Association of Colleges of Pharmacy Interim Meeting, Austin, TX, February 2015

*"Using the Patient Centered Medical Home Model to Target Minority Seniors with Hypertension and Diabetes"*

Accreditation Council for Pharmacy Education approved program

American Society of Consultant Pharmacists Spring Conference, Anaheim, CA, May 2012

*"Informing Patients through Patient Centered Care Research"*

Accreditation Council for Continuing Medical Education approved program

National Hispanic Medical Association Sixteenth Annual Conference, Washington D.C., April 2012

*"Utilizing Economic and Clinical Outcomes to Eliminate Health Disparities and Improve Health Equity"*

Accreditation Council for Pharmacy Education approved program

Xavier University of Louisiana Center for Minority Health and Health Disparities Fifth Health Disparities Conference, New Orleans, LA, March 2012

*"Implementing Patient Centered Intervention Strategies to Address Local Needs"*

Accreditation Council for Pharmacy Education and American Public Health Association approved program

Patient Centered Care Collaboration to Improve Minority Health: A Role for Health Information Technology Conference, Houston, TX, August 2011

*"Training the Next Generation of Minority Pharmacists for Medication Therapy Management/Leadership"*

Student National Pharmacists Association Regional Meeting, Houston, TX, February 2011

*"Careers in Pharmacy Panel Discussion,"*

Panel participant for audience of pharmacy student meeting attendees

Association of Black Health-System Pharmacists Annual Meeting, Houston, TX, May 2010

*"Medication Therapy Management: What to Inform Your Student,"*

Accreditation Council for Pharmacy Education approved program  
Texas Southern University Annual Preceptor Conference, Houston, TX, November 2005

*"Conveying Professionalism to Today's Pharmacy Student,"*  
Accreditation Council for Pharmacy Education approved program  
Texas Society of Health-System Pharmacists Annual Meeting, Austin, TX, April 2005

*"Applying Quality Improvement Principles to Reduce Medication Turn-Around-Time,"*  
Great Lakes Residency Conference, West Lafayette, IN, May 2003

*"Physician Compliance With Established Hospital Prescribing Guidelines,"*  
Great Lakes Residency Conference, Indianapolis, IN, April 2002

### **Professional Poster Presentations**

Godfrey D, Moultry AM. Implementation of a college-wide advising protocol to impact student success. The Texas Association of Advisors for the Health Professions 45<sup>th</sup> Annual Meeting. February 2014.

Davis P, Bui T, Archibong D, Moultry AM. Adverse drug event reporting within a major county hospital district. American Society of Health-System Pharmacists Midyear Clinical Meeting. December 2008.

Moultry AM. Interventions utilized to educate the minority elderly population in medication management. National Pharmaceutical Association Annual Meeting. 2008.

Moultry AM. The development and implementation of a model practice management skill for third professional year students. American Association of Colleges of Pharmacy Annual Meeting. 72(3):pNIL\_0095. 2008.

Eaton AT, Estes F, Moultry AM. Perceptions of students, faculty, and alumni for preferred didactic electives in the pharmacy curriculum. American Association of Colleges of Pharmacy Annual Meeting. 72(3): p NIL-0045. 2008.

Poon IO, Moultry AM, Dyer P, Dewar L, Henderson BA. Medication management in collaboration with area agency. American Society of Health-System Pharmacists Midyear Clinical Meeting. 42 (DEC). 2007

Morris AM, Schneider PJ, Pedersen CA, Mirtallo JM. Gaps between sterile preparation compounding and quality assurance standards. American Society of Health-System Pharmacists Midyear Clinical Meeting. 38 (DEC): p FGF-09. 2003.

### **College Committee Work**

Interprofessional Education Committee (ex-officio), 2014 - present  
Admissions and Academic Standards Committee (ex-officio), 2011 - present  
Pharmacy Practice Department Promotion and Tenure Committee, 2010 - present  
Comprehensive Exam Committee (Chair), 2009 - 2011  
Integrated Pharmacotherapy Work Group VI (Co-leader), 2008 – 2011  
Associate Dean Search Committee, 2008 – 2009  
Assessment, Evaluation, and Improvement Committee (Co-chair), 2007 – 2011  
Curriculum Committee, 2007 – present  
Integrated Curriculum subgroup, 2007 – 2009  
Didactic Electives Curriculum subgroup, 2007 – 2009  
Clinical Conference Planning Committee 2007 – 2009  
Pharmacy Practice Department Search Committee, 2006 – 2013, Chair 2006 - 2011  
Faculty Assessment Advisory Team, 2004 – 2006  
Student/Faculty Relations (Co-chair), 2004 – 2006  
Formative Summative P4 Assessment/OSCE, 2004 – 2011  
Comprehensive Exam Committee, 2003 – 2007, (Chair) 2009 – 2011  
Pharmacy Practice Faculty Search Committee 2003 – present

### **Journal Peer Reviewer**

Journal of Pharmaceutical Care & Health Systems, 2014 – present  
American Journal of Pharmacy Education, 2011 – present  
American College of Clinical Pharmacy, 2012 – present  
Hospital Pharmacy Journal, 2005 – 2008  
Formulary Journal, 2004 – 2006  
American Journal of Health-System Pharmacists, 2003 – 2005

### **Editorial Board**

Journal of Pharmaceutical Care & Health Systems, 2014 – present

### **Book Reviewer**

Schumock GT, Stubbings J. How to Develop a Business Plan for Pharmacy Services. 2<sup>nd</sup> edition

Chisolm-Burns MA, Vaillancourt AM. Pharmacy Management, Leadership, Marketing, and Finance. 1<sup>st</sup> edition

### **Professional Honors and Awards**

Association of Black Health-System Pharmacists Award, 2012  
Texas Southern University Preceptor of the Year, 2011  
Who's Who in Black Houston, 2010  
Wal-Mart Stores, Inc. Pharmacy Management Instructor's Award, 2008  
Wal-Mart Stores, Inc. Pharmacy Management Instructor's Award, 2007

Honored Member Empire Who's Who of Executives and Professionals, 2006 – 2007  
Harris County Hospital District Department of Pharmacy Team Player Award, 2004

### **Professional Affiliations**

American Association of Colleges of Pharmacy, 2003 – present

- Leadership Development Sig, 2014 – present
  - Leadership Toolkit Taskforce – Classroom Resources Lead

Association of Schools Allied Health Professions, 2014 – present

- Interprofessional Education Committee

Texas Association of Advisors for Health Professions, 2012 – 2014

Association of Black Health-System Pharmacists, 2008 – 2013

- Immediate Past President, 2012 – 2013
- President, 2011 – 2012
- Board of Directors, 2009 – 2011
- Chair of Student Affairs Committee, 2008 – 2009

American Society of Health-System Pharmacists

- ASHP-ABHP Joint Committee, 2010-2012

National Pharmaceutical Association, 2011 - 2013

- NPhA-ABHP Joint Committee, 2011 -2012

Golden Key National Honors Society

Lambda Kappa Sigma International Pharmaceutical Fraternity

Rho Chi Pharmacy Honors Society

# **CURRICULUM VITAE**

***Ya Fatou Njie-Mbye, Ph.D.***

**NAME:** Ya Fatou Njie-Mbye

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U.S.A.  
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**EDUCATION:**

**Degrees Earned:**

UNIVERSITY OF LOUISVILLE SCHOOL OF MEDICINE, Louisville, Kentucky  
**Doctor of Philosophy (Ph.D.) in Pharmacology & Toxicology** - December 2007  
**Dissertation Title:** Cannabinoids As Potential Therapeutic Agents For Glaucoma.  
**Supervisor:** Zhao-Hui Song, Ph.D.

UNIVERSITY OF LOUISVILLE SCHOOL OF MEDICINE, Louisville, Kentucky  
**Master of Science (M.Sc.) in Pharmacology & Toxicology** - December 2005  
**Thesis Title:** Effects of the Endogenous Cannabinoid, Noladin Ether on Aqueous Humor Outflow Facility Mediated by the CB1 Cannabinoid Receptor  
**Supervisor:** Zhao-Hui Song, Ph.D.

KENTUCKY STATE UNIVERSITY, Frankfort, Kentucky  
**Bachelor of Science (B.Sc.) in Chemistry**, minors in **Biology and Mathematics** (*Magna Cum Laude & Department Honors*) - May 2003

**Special Training Programs:**

PostDoctoral-Neuropharmacology, University of Houston, Houston, Texas • 2007-2008

PostDoctoral-Neuropharmacology, Texas Southern University, Houston, Texas • 2008-2009

**PROFESSIONAL EXPERIENCE:**

- 2015-present:     **Assistant Professor of Pharmacology.** Department of Pharmaceutical and Environmental Health Sciences, College of Pharmacy and Health Sciences Texas Southern University, Houston, Texas.
- 2009-2015:     **Research Assistant Professor.** Department of Pharmaceutical Sciences, College of Pharmacy and Health Sciences, Texas Southern University, Houston, Texas.
- 2008-2009:     **PostDoctoral Research Fellow.** Department of Pharmaceutical and Environmental Health Sciences, College of Pharmacy and Health Sciences Texas Southern University, Houston, Texas.
- 2007-2008:     **PostDoctoral Research Fellow.** Department of Pharmacological and Pharmaceutical Sciences, College of Pharmacy, University of Houston, Houston, Texas.
- 2003-2007:     **Graduate Research Assistant.** Department of Pharmacology and Toxicology, University of Louisville School of Medicine, Louisville, Kentucky.

**APPOINTMENTS AND LEADERSHIP ROLES:**

**ACADEMICS**

- Radiation Safety Committee Chair** - University Research Compliance Committee, TSU, 2015-present
- Admissions and Academic Standards Committee Member** - College of Pharmacy and Health Sciences, TSU, 2015-present
- Curriculum Departmental Subcommittee** - Department of Pharmaceutical and Environmental Sciences, COPHS, TSU, 2018-present
- Curriculum Program Subcommittee (Doctor of Pharmacy)** - College of Pharmacy and Health Sciences, TSU, 2018-present
- Curriculum Program Subcommittee (Doctor of Philosophy in Pharmaceutical Sciences)** - College of Pharmacy and Health Sciences, TSU, 2018-present
- Curriculum Committee**- College of Pharmacy and Health Sciences, TSU, 2015-2018
- Radiation Safety Committee Member**- University Research Compliance Committee, TSU, 2015-present.
- Pharmacy Faculty Advisor**- College of Pharmacy and Health Sciences, TSU, 2014-present.
- Research Judge** - Served as a judge at the TSU 2014 Summer Undergraduate Research Program

**Admissions Committee Member (Doctor of Philosophy in Pharmaceutical Sciences) -**  
Department of Pharmaceutical and Environmental Sciences, COPHS, TSU, 2013-present.

**Graduate Faculty** – The Graduate School, TSU 2012-present.

**Research Seminar/Journal Club Co-ordinator** - Center for Cardiovascular Diseases, COPHS, TSU, 2009-present.

### PROFESSIONAL

**Research Judge** - Annual Biomedical Research Conference for Minority Students, 2011- St Louis, Missouri

**Women in Eye and Vision Research Networking Committee-** ARVO Foundation for Eye Research, 2010-2011, Rockville, Maryland

### **Reviewer for the following Peer-Reviewed Journals:**

1. *Journal of Pharmacological and Toxicological Methods*
2. *Journal Expert Review of Ophthalmology*
3. *Journal of Physiology and Pathophysiology*
4. *Current Eye Research*
5. *Pharmacological Research*

### **Reviewer for the following Books:**

Title: “*Nutritional And Therapeutic Intervention Of Diabetes And Metabolic Syndrome*” Edited work by Bagchi D. and Nair S. (2010) In: Nutrition, Academic Press/Elsevier

Title: “*Bio-Nanotechnology: A Revolution In Biomedical Sciences, & Human Health*” Edited by Bagchi D, Bagchi M, Moriyama H and Shahidi F. (2010). In: Wiley-Blackwell

### **HONORS AND AWARDS:**

- TSU-UTEP BUILDing Scholars Program Mentor Award- 2017
- FASEB-MARC Faculty/Mentor Travel Award Recipient to attend 2014 Experimental Biology Meeting in San Diego, CA. April 2014.
- Featured in President’s Report 2013- Texas Southern University, Houston, Texas. May 2013
- TSU Faculty Excellence Award Recipient, College of Pharmacy and Health Sciences, Texas Southern University, Houston, Texas. April 2013, 2014

- Certification of Recognition for “transforming Texas Through Undergraduate Research”- Texas Undergraduate Research Day at the Capitol, Austin, TX. April 2013
- Featured as “Spotlight on a Researcher”- The Researcher Newsletter, Office of Research Texas Southern University, Houston, Texas. May 2012
- Certification of Appreciation - Outstanding Judge, Annual Biomedical Research Conference for Minority Students, St Louis, MO. November 2011.
- Certification of Appreciation - Outstanding Mentorship, Summer Undergraduate Research Program. Texas Southern University, Houston, Texas. August 2010-2014.
- Outstanding Poster Award Recipient, Nigerian Association of Pharmacist & Pharmaceutical Sciences in the Americas, Dallas, TX. September 2010
- Best Abstract Finalist - Dolores Shockley Award, American Society for Pharmacology and Experimental Therapeutics, Diversity Committee, FASEB Annual Meeting, Anaheim, CA. April 2010.
- Best Abstract Finalist- Drug Discovery, Development & Regulatory Affairs – New Investigator, American Society for Pharmacology and Experimental Therapeutics, FASEB Annual Meeting, Anaheim, CA. April 2010.
- Outstanding Research Award Recipient, Second Place - Faculty Oral Competition, Research Week Texas Southern University, Houston, Texas. April 2010
- American Society for Pharmacology and Experimental Therapeutics Young Scientist Travel Award Recipient to attend 2010 FASEB Annual Meeting, Anaheim, CA. April 2010.
- Outstanding Research Award Recipient, Second Place - Staff Oral Competition, Research Week, Texas Southern University, Houston, Texas. April 2009.
- International Society for Eye Research Travel Award Recipient to attend 2008 ICER meeting in Beijing, China. September 2008.
- University of Louisville School of Medicine Travel Award Recipient to attend 2005, 2007 ARVO meeting in Fort Lauderdale, Florida.
- The Graduate School, University of Louisville School of Medicine Travel Award Recipient to attend 2005, 2007 ARVO meeting in Fort Lauderdale, Florida. May 2005, 2007.
- Fellowship Recipient - Integrated Program In Biomedical Science (IPIBS), University

of Louisville School of Medicine, Louisville, Kentucky. 2003 - 2005

- Fellowship Recipient - Summer Research Opportunity Program (SROP), University of Louisville School of Medicine, Louisville, Kentucky. Summer 2002.
- Certificate of Excellence, Alpha Kappa Mu National Honor Society, Kentucky State University, Frankfort, Kentucky. 2002
- Outstanding Major in Chemistry, Mathematics and Science Scholarship Award, College of Math & Science, Kentucky State University, Frankfort, Kentucky. 2001- 2003.
- Academic Achievement Award in Chemistry, College of Math & Science, Kentucky State University, Frankfort, Kentucky. 2001-2003.
- Fellowship Recipient - Kentucky NSF-EPSCoR Program, University of Kentucky College of Medicine, Lexington, Kentucky. Summer 2001.
- Academic Achievement Scholarship Award - Kentucky State University, Frankfort, Kentucky. 2000- 2003.
- Presidential Scholarship Award for Outstanding GPA - Kentucky State University Frankfort, Kentucky. 1999-2003.

### **PROFESSIONAL AFFILIATIONS:**

Member, 2009-Present: American Society for Pharmacology and Experimental Therapeutics (ASPET).

Member, 2007-Present: International Society for Eye Research (ISER).

Member, 2006-2018: International Cannabinoid Research Society (ICRS).

Member, 2004-Present: Association for Research in Vision and Ophthalmology (ARVO).

Member, 2003-Present: Delta Sigma Theta Sorority Inc.

## **TEACHING ACTIVITIES**

### **Texas Southern University**

#### **Doctor of Pharmacy (Pharm.D)**

Pharmacology, PHAR 428 (Instructor, 2017-present)  
Pathophysiology, PHAR 426 (Co-ordinator, Instructor, 2016-present)  
Seminar, PHAR771 (Faculty Research Preceptor, 2016-2018)  
Summer Academy (Instructor, 2015-present)  
Pharmacotherapy VII, PHAR 644 (Instructor, 2015-2018)  
Principles of Drug Action I, PHAR 438. (Instructor, 2014-2016)  
Principles of Drug Action I Laboratory, PHAR 418. (Instructor, 2014-2016)  
Principles of Drug Action III, PHAR 538. (Co-ordinator, Instructor, 2012- 2016)  
Principles of Drug Action III Laboratory, PHAR 518. (Instructor, 2012-2016)

#### **Graduate Program in Pharmaceutical Sciences (Doctor of Philosophy; Ph.D)**

Cell Biology, PHS 901 (Instructor, 2019- present )  
Advanced Pharmacology, PHS 809 (Co-Design, Co-ordinator, Instructor, 2014-present)  
Ph.D Research, PHS 916/917 (Supervisor, Thesis committee member, 2015-present)  
Ph.D Dissertation, PHS 918 (Co-Supervisor, Dissertation committee member, 2015-present)  
Laboratory Rotation in Pharmacology, PHS 814 (Rotation Supervisor 2009-present)  
Biostatistics, PHS 801 (Instructor, 2017)  
Experimental Design, PHS 807 (Instructor, 2017)  
Seminar/Special Topics/Grantsmanship, PHS 803 (Instructor 2015-2017)  
Advanced Pathophysiology, PHS 808 (Co-ordinator, Instructor 2015)

#### **Undergraduate Program in Psychology (Bachelor of Arts; B.A)**

Biopsychology, PSY 436 (*Guest Lecturer, 2013*)

### **Kentucky State University**

Academic Team Tutoring Program (*Tutor, 2001-2003*)

## **RESEARCH PUBLICATIONS:**

1. **Njie-Mbye Y\*\*.**, Robinson J., Mitchell-Bush L., Mckoy M., Opere CA., Ohia SE., Sharif N. *Pharmacology of Serotonin Receptors Causing Contraction of Isolated Bovine Posterior Ciliary Arteries: Role in Ocular Blood Flow.* J Ocul Pharmacol Ther. 2018 ;34(1-2):134-140. PMID:29369737

2. Ohia SE., **Njie-Mbye Y\*\*.**, Robinson J., Mitchell L., Mckoy M., Opere CA., Sharif NA. *Serotonin-2B/2C Receptors Mediate Bovine Ciliary Muscle Contraction: Role in Intraocular Pressure Regulation.* J Ocul Pharmacol Ther. 2018; 34(1-2):70-75. PMID: 29364761
3. Bankhele P., Salvi A, Jamil J., **Njie-Mbye Y\*\*.**, Ohia S., Opere CA. *Comparative Effects of Hydrogen Sulfide-Releasing Compounds on [3H]D-Aspartate Release from Bovine Isolated Retinae.* Neurochem Res. 2018; 43(3):692-701. PMID:29353375
4. Opere CA., Heruye S., **Njie-Mbye Y\*\*.**, Ohia SE., Sharif NA. *Regulation of Excitatory Amino Acid Transmission in the Retina: Studies on Neuroprotection.* J Ocul Pharmacol Ther. 2018; 34(1-2):107-118. PMID:29267132
5. Ohia SE., Robinson J., Mitchell L., Ngele KK., Heruye S., Opere CA., **Njie-Mbye Y\*\*.** *Regulation of Aqueous Humor Dynamics by Hydrogen Sulfide: Potential Role in Glaucoma Pharmacotherapy.* J Ocul Pharmacol Ther. 2018; 34(1-2):61-69. PMID:29215951
6. Robinson J., Okoro E., Ezuedu C., Bush L., Opere CA., Ohia SE., **Njie-Mbye Y\*\*.** *Effects of Hydrogen Sulfide-Releasing Compounds on Aqueous Humor Outflow Facility in Porcine Ocular Anterior Segments, Ex Vivo.* J Ocul Pharmacol Ther. 2017; 33(2):91-97.
7. Salvi A., Bankhele P., Jamil J., Chitnis MK., **Njie-Mbye Y\*\*.**, Ohia SE., Opere CA. *Effect of Hydrogen Sulfide Donors on Intraocular Pressure in Rabbits.* J Ocul Pharmacol Ther. 2016; 32(6):371-5.
8. Salvi A., Bankhele P., Jamil J., Chitnis MK., **Njie-Mbye Y\*\*.**, Ohia SE., Opere CA. *Pharmacological Actions of Hydrogen Sulfide Donors on Sympathetic Neurotransmission in the Bovine Anterior Uvea, In Vitro.* Neurochem Res. 2016; 41(5):1020-8.
9. Kulkarni-Chitnis M., **Njie-Mbye Y\*\*.**, Mitchell L., Robinson J., Whiteman M., Wood ME., Opere CA, Ohia SE. *Inhibitory action of novel hydrogen sulfide donors on bovine isolated posterior ciliary arteries.* Exp Eye Res. 2015 Apr 4;134:73-79
10. Jamil J, Wright., Bankhele P., Salvi A., Mannix JE., Oger C., Guy A., Galano JM., Durand T., **Njie-Mbye Y\*\*.**, Ohia SE., Opere CA. *Role of the Non-enzymatic Metabolite of Eicosapentaenoic Acid, 5-epi-5-F3t-Isoprostane in the Regulation of [ 3H]D-Aspartate Release in Isolated Bovine Retina.* Neurochemical Research. 2014 Dec; 39(12):2360-9.
11. **Njie-Mbye Y\*\*.**, Kulkarni M., Barrett A., Opere C.A., Ohia S.E. *Lipid Peroxidation: Pathophysiology and Pharmacological Implications in the Eye.* Research Topic: Frontiers in Membrane Physiology and Biophysics. Frontiers in Physiology. 2013; 4:366.

12. Kulkarni M., **Njie-Mbye Y\*\*.**, Opere C.A., Wood, M., Whiteman M., Ohia S.E.. *Pharmacological Actions of the slow release Hydrogen Sulfide Donor GYY4137 On Induced Tone in Isolated Bovine Ciliary Artery*. Experimental Eye Research. 2013;116:350-4
13. **Njie-Mbye Y\*\*.**, Opere C.A., Kulkarni M., Ohia S.E. *Hydrogen Sulfide: Role in Ion channel and transporter Modulation in the Eye*. Research Topic: Frontiers in Membrane Physiology and Biophysics. Frontiers in Physiology. 2012; 3: 295
14. **Njie-Mbye Y\*\*.**, Kulkarni M., Opere C. A., Ohia S. E. *Mechanism of Action of Hydrogen Sulfide on Cyclic AMP Formation in RPE-J Cells*. Experimental Eye Research 2012;98(1):16-22
15. Jamil J. M., Harrison N., Wright A., Kegey E., Kotera C., Flowers A. F., Floyd N., Guy A., Galano J.M., Durand T., **Njie-Mbye Y\*\*.**, Ohia S. E., Opere C. A. *Regulation of [<sup>3</sup>H]D-Aspartate Release by the 5- $\alpha$ -isoprostane and its 5-epimer, in Isolated Bovine Retina*. Neurochem Res. 2012;37(3):574-82
16. Kulkarni M, **Njie-Mbye Y\*\*.**, Okpobiri I, Zhao M, Opere C. A., Ohia S. E. *Endogenous Production of Hydrogen Sulfide in Isolated Bovine Eye*. Neurochem Res. 2011; 36(8):1540-5
17. Ohia S. E., Opere C. A., Monjok E. M., Kouamou G., LeDay A.M., **Njie-Mbye Y\*\*.** *Role of Hydrogen Sulfide production in inhibitory Action of L-Cysteine on Isolated Porcine Irides*. Current Eye Research. 2010; 35(5):402-407
18. **Njie-Mbye Y\*\*.**, Bongmba O. Y., Onyema C. C., Chitnis A., Kulkarni M, Opere C.A. , LeDay A.M., Ohia S. E. *Effect of Hydrogen Sulfide on Cyclic AMP Production in Isolated Bovine and Porcine Neural Retinae*. Neurochemical Research. 2010; 35(3):487-94.
19. Opere C. A., Monjok E. M., Kulkarni K.H., **Njie Y\*\*.**, Ohia S.E. *Regulation of [<sup>3</sup>H] D-aspartate Release from Isolated Mammalian Retinae by Hydrogen Sulfide*. Neurochemical Research. 2009; 31(11):1962-1968.
20. Kulkarni K.H., Monjok E. M., Zeyssig R., Kouamou G., Bongmba O. N., Opere C.A., **Njie Y\*\*.**, Ohia S.E. *Effect of Hydrogen Sulfide on Sympathetic Neurotransmission and Catecholamine Levels in Isolated Porcine Iris-Ciliary Body*. Neurochemical Research. 2009; 34(3):400-406.
21. Monjok E. M., Kulkarni K.H., Kouamou G., Bongmba O. N., McKoy M., Opere C.A., **Njie Y\*\*.**, Ohia S.E.. *Inhibitory Action of Hydrogen Sulfide on Muscurinic-receptor Induced Contraction of Isolated Porcine Irides*. Experimental Eye Research. 2008; 87(6):612-616.

22. **Njie Y\*\*.**, He F., Qiao Z., Song Z.H. *Aqueous Humor Outflow Effects of 2-Arachidonylglycerol*. *Experimental Eye Research*. 2008; 87(2):106-114.
23. **Njie Y\*\*.**, Qiao Z., Xiao Z., Wang W., Song Z.H. *N-arachidonylethanolamide-induced Increase in Aqueous Humor Outflow Facility*. *Investigative Ophthalmology and Visual Sciences*. 2008; 49(10):4528-4534.
24. **Njie Y\*\*.**, Kumar A., Qiao Z., Zhong L., Song Z.H. *Noladin Ether Acts on Trabecular Meshwork Cannabinoid (CB1) Receptors to Enhance Aqueous Humor Outflow Facility*. *Investigative Ophthalmology and Visual Sciences*. 2006; 47(5):1999-2005.
25. Zhong L., Geng L., **Njie Y\*\*.**, Feng W., Song Z.H. *CB2 Cannabinoid Receptors in Trabecular Meshwork Cells Mediate JWH015-Induced Enhancement of Aqueous Humor Outflow Facility*. *Investigative Ophthalmology and Visual Sciences*. 2005; 46(6):1988-1992.

#### **BOOK CHAPTERS:**

1. Mitchell-Bush L., Robinson J., Ohia-Nwoko OI., Kawesa-Bass E., Stancombe BA., Opere CA, **Njie-Mbye Y\*\*.**, Ohia SE. *Interaction of Phytopharmaceuticals with Neurotransmitters in the Brain*. (2017) *Phytopharmaceuticals for Brain Health*. Editors: Shahnaz Subhan and Manashi Bagchi. CRC Press. Taylor and Francis Group. ISBN-13: 978-1498757676 ; ISBN-10: 1498757677
2. **Njie-Mbye Y\*\*.**, Opere C.A., Kulkarni M., Barrett, A., Ohia S.E. *Ocular Health and Vision*.,(2013) *Inflammation, Advancing Age and Nutrition*. Elsevier/Academic Press. Editors: Irfan Rahman and Debasis Bagchi. ISBN: 9780123978035
3. Ohia S.E., Opere C.A., Kulkarni M., **Njie-Mbye Y\*\*.** *Role of Neurotransmitters in Obesity Regulation*. (2012) *Obesity Epidemiology, Pathophysiology, and Prevention*. 2<sup>nd</sup> Edition. CRC Press; Taylor and Francis. Editors: Debasis Bagchi and Harry G. Preuss. ISBN: 1439854254
4. **Njie-Mbye Y\*\*.**, Anjanette F, Zhao M, Ohia S.E, Opere C.A. *Oxidative Stress In Ocular Tissues: Pathophysiological And Pharmacological Implications* (2011). *Lipid Peroxidation: Biological Implications*. Editor: Angel Catala. ISBN: 978-81-7895-527-8
5. Opere C.A, Zhao M, **Njie-Mbye Y\*\*.**, Ohia S.E. *Biological Consequences Of Lipid Peroxidation Of Long Chain Polyunsaturated Fatty Acids In Ocular Tissues: Role Of The Isoprostanes And Neuroprostanes* (2011). *Lipid Peroxidation: Biological Implications*. Editor: Angel Catala. ISBN: 978-81-7895-527-8

**PUBLISHED ABSTRACTS:**

1. Robinson J, Mitchell-Bush L, Whiteman M, Opere CA, 5. Ohia SE, **Njie-Mbye Y\*\***. *Relaxation of Porcine Isolated Irides by Novel Hydrogen Sulfide-Releasing Compounds* FASEB Journal 2018. 32:1
2. Bush L, Robinson J, Kutse S, Ebuzoeme C, Onyenaka C, Akpan I, Opere CA, Ohia SE, **Njie-Mbye Y\*\***. *Regulation of Hydrogen Sulfide Levels by Cannabinoids in the Bovine Isolated Retina*. FASEB Journal 2018. 32:1
3. Ohia SE, Robinson J, Mitchell L Opere CA, **Njie-Mbye Y\*\***. *Effect of Hydrogen Sulfide Releasing Compounds on Aqueous Humor Outflow Facility Under Normal and Elevated Ocular Perfusion Pressure*. Invest. Ophthalmol. Vis. Sci. 2018; 59(9):4706
4. Ohia SE., Robinson J., Ngele K., Whiteman M., Opere CA., **Njie-Mbye Y\*\***. *Inhibitory Action of Mitochondrial-targeting Hydrogen Sulfide Releasing Compounds on Porcine Isolated Irides*. Invest. Ophthalmol. Vis. Sci.. 2017; 58(8):1073
5. Robinson J., Mitchell L., Ngele K., Opere CA., Ohia SE., **Njie-Mbye Y\*\***. *Effect of Hydrogen Sulfide-Releasing Compounds on Aqueous Humor Outflow Facility Under Different Perfusion Pressures* FASEB Journal 2017. 31:1
6. Mitchell L., Robinson J., Ngele K., Opere CA., Ohia SE., **Njie-Mbye Y\*\***. *Regulation of Cannabinoid-mediated Neuroprotection by Hydrogen Sulfide in Bovine Isolated* FASEB Journal 2017. 31:1
7. Sharif N., **Njie-Mbye Y\*\***., Ohia SE., Kulkarni-Chitnis M. *Contractile Effects of Serotonergic Receptor Agonists and Antagonists on Isolated Bovine Ciliary Arteries*. Invest. Ophthalmol. Vis. Sci. 2016; 57(12):4596.
8. Mitchell L., Robinson J., Ngele K., Opere CA., Ohia SE., **Njie-Mbye Y\*\***. *Neuroprotective Actions Of Hydrogen Sulfide-Releasing Compounds And Cannabinoids In The Bovine Isolated Neural Retina*. Invest. Ophthalmol. Vis. Sci.. 2016; 57(12):6399.
9. Ohia SE., Ajelabi E., Anyikwa C., Ly C., Chua Ca., Chua Cl., Robinson J., Bush L., Opere CA., **Njie-Mbye Y\*\***. *Role Of Prostaglandins And Acetylcholine In The Contractile Actions Of Hydrogen Sulfide-Releasing Compounds In The Bovine Isolated Iris* Invest. Ophthalmol. Vis. Sci.. 2016; 57(12):6402.

10. Robinson J., Bush L., Nguyen O., Opere CA., Ohia SE., **Njie-Mbye Y\*\***. *Role Of Biosynthetic Enzymes And Prostaglandins On Hydrogen Sulfide Levels In Porcine Ocular Anterior Segment Outflow Model* Invest. Ophthalmol. Vis. Sci. 2016; 57(12):6413.
11. Opere CA., Jamil J., Kawesa-Bass E., Durand T., Guy A., Galano JM., **Njie-Mbye Y\*\***., Robinson J., Ohia SE. *Regulation of Potassium-Induced [ 3 H]D-Aspartate Release from Bovine Isolated Retina by the DHA-Metabolite , 4(S)-F 4t -Neuroprostane: Role of Arachidonic Acid Metabolites*. Invest. Ophthalmol. Vis. Sci. 2016; 57(12):113.
12. Mitchell-Bush L., Robinson J., Opere CA., Ohia SE., **Njie-Mbye Y\*\***. *Neuroprotective Actions Of L-Cysteine And Meth-Anadamide In The Bovine Isolated Neural Retina*. FASEB Journal 2016. 30:1
13. Ohia SE., Bush L., Robinson J., **Njie-Mbye Y\*\***., Bagchi D. *Inhibitory Effects of Green Coffee Bean Extract on Serotonin Uptake in the Rat Brain Cortex*. FASEB Journal 2016. 30:1
14. Robinson J., Mitchell L., Nguyen O., Opere CA., Ohia SE., **Njie-Mbye Y\*\***. *Changes in Hydrogen Sulfide Concentrations in Porcine Ocular Anterior Segment Explants Under Elevated Perfusion Pressures: Role Of Prostaglandins*. FASEB Journal 2016. 30:1
15. Ajelabi E., Anyikwa C., Ly C., Chua Ca., Chua Cl., Robinson J., Mitchell L., Opere CA., **Njie-Mbye Y\*\***., Ohia SE. *Contractile Actions of Hydrogen Sulfide Donors on the Bovine Isolated Iris: Role of Prostaglandins*. Volume 30, Issue 1\_supplement01 Apr 2016
16. **Njie-Mbye Y\*\***., Agwu N., Nguyen O., Robinson J., Mitchell L., Opere C. A., Ohia S. E. *Hydrogen Sulfide Regulates Prostaglandin Production in Isolated Bovine Iris and Retina*. Investigative Ophthalmology and Visual Sciences. 2015; 56:4400.
17. Robinson J., Okoro E., Mitchell L., Opere C. A., Ohia S. E. , **Njie-Mbye Y\*\***. *Effect of Sodium Hydrosulfide on Aqueous Humor Outflow: Role of Prostanoids and Cyclic AMP*. Investigative Ophthalmology and Visual Sciences. 2015; 56:4408.
18. Mitchell L., Fasiku O., Robinson J., Opere C. A., Ohia S. E. , **Njie-Mbye Y\*\***. *Regulation of Glutamate-Induced Excitotoxicity in Bovine Neural Retina by L-cysteine and Anandamide*. Investigative Ophthalmology and Visual Sciences. 2015; 56:4399.
19. Opere C. A., Jamil J. M., Galano JM., Ullah F., Kwong HY., Guy A., Durand T., Mitchell L., **Njie-Mbye Y\*\*** ., Ohia S. E. , *Regulation of K + -induced [ 3 H]D-aspartate release by the non-enzymatic, DHA-derived metabolite, 4(S)-F 4t -neuroprostane in bovine retina, in vitro*. Investigative Ophthalmology and Visual Sciences. 2015; 56:4401.

20. Nguyen O., Robinson J., Mitchell L., Opere C. A., Ohia S.E., **Njie-Mbye Y\*\***. *Involvement of Prostaglandins in the Pharmacological Actions of L-Cysteine in Ocular Tissues*. FASEB J. 2015 29:1024.2
21. Robinson J., Okoro E., Mitchell L., Nguyen O., Opere C. A., Ohia S.E., **Njie-Mbye Y\*\***. *Mechanism of Action in NaHS-Induced Increase in Aqueous Humor Outflow*. FASEB J. 2015 29:1024.3
22. Mitchell L., Fasiku O., Robinson J., Opere C. A., Ohia S. E. , **Njie-Mbye Y\*\***. *Effect of L-cysteine on Glutamate-Induced Excitotoxicity in Bovine Neural Retina*. FASEB J. 2015 29:1024.4
23. **Njie-Mbye Y\*\***., Robinson J., Chinonso E., Mitchell L., Chitnis M., Opere C. A., Ohia S. E. *Effects of hydrogen sulfide-releasing compounds on aqueous humor outflow*. Investigative Ophthalmology and Visual Sciences. 2014, 55:2890
24. Sharif N., Chitnis M., **Njie-Mbye Y\*\***., Ohia S. E. *Pharmacological Evidence for Serotonin-2B Receptor-Mediated Bovine Ciliary Muscle Contraction*. Investigative Ophthalmology and Visual Sciences. 2014, 55:3024
25. Opere C. A., Brankhele P., Slavi A., Jamil J. M., Munt D., **Njie-Mbye Y\*\***., Chitnis M., Ohia S. E. *Comparative inhibition of excitatory neurotransmission by N-Acetylcysteine and L-cysteine in bovine isolated retina*. Investigative Ophthalmology and Visual Sciences. 2014, 55:1886
26. Ohia S. E., Chitnis, M., Robinson J., Mitchell L., **Njie-Mbye Y\*\***., Opere C. A., *Effect of Novel Hydrogen Sulfide Donors (AP67 and AP72) on Isolated Bovine Ciliary Artery* Investigative Ophthalmology and Visual Sciences. 2014, 55:4348
27. Robinson J., Chinonso E., Mitchell L., Chitnis M., Opere C. A., Ohia S. E., **Njie-Mbye Y\*\***. *Involvement of  $K_{ATP}$  channels in hydrogen sulfide-induced increase in aqueous humor outflow*. FASEB Journal 2014 28:1060.3
28. Opere C. A., Brankhele P., Slavi A., Jamil J. M., Munt D., **Njie-Mbye Y\*\***., Chitnis M., Ohia S. E. *Comparative pharmacological actions of N-acetylcysteine and L-cysteine on excitatory neurotransmission in bovine isolated retina*. FASEB Journal 2014, 28:1060.4
29. Chitnis M., Belford R., Robinson J., Mitchell L., **Njie-Mbye Y\*\***., Opere C. A., Ohia S. E. *Interaction between hydrogen sulfide and nitric oxide in isolated bovine retina* FASEB Journal 2014, 28:1060.2
30. Ohia S. E., Okpobiri A., **Njie-Mbye Y\*\***., Robinson J., Chitnis M., Opere C. A

*Pharmacological Actions of L-cysteine on Isolated Bovine Ciliary Muscles*. Investigative Ophthalmology and Visual Sciences. 2013, 54:7872

31. Slavi A., Brankhele P., Jamil J. M., **Njie-Mbye Y\*\*.**, Kulkarni M., Ohia S. E., Opere C. A. *Regulation of Mammalian Sympathetic Neurotransmitter Release and Intraocular Pressure by Hydrogen Sulfide Donor, GYY 4137*. Investigative Ophthalmology and Visual Sciences. 2013, 54:1976
32. **Njie-Mbye Y\*\*.**, Robinson J., Okpobiri A., Chitnis M., Opere C. A., Ohia S. E. *Effect of NaHS, a fast-releasing Hydrogen sulfide donor on Aqueous Humor Outflow in Porcine Trabecular Meshwork* Investigative Ophthalmology and Visual Sciences. 2013, 54:3563
33. Brankhele P., Jamil J. M., Slavi A., **Njie-Mbye Y\*\*.**, Kulkarni M., Ohia S. E., Opere C. A. *Further Studies on the Inhibition of [3H]D-Aspartate Release by Hydrogen Sulfide Donors in Isolated Bovine Retina*. Investigative Ophthalmology and Visual Sciences. 2013, 54:6325
34. Jamil J. M., Brankhele P., Slavi A., Durand T., Galano J.M., Guy A., **Njie-Mbye Y\*\*.**, Ohia S. E. Opere C. A. *Further Studies On The Role Of Arachidonic Acid Metabolites In The Regulation Of Potassium-Induced [3H]D-Aspartate Release From Isolated Bovine Retinae By 5-epi-5-F3t-Isoprostane*. Investigative Ophthalmology and Visual Sciences. 2013, 54:6315
35. Okpobiri A., **Njie-Mbye Y\*\*.**, Robinson J., Chitnis M., Opere C. A., Ohia S. E. *Effect of Hydrogen Sulfide on Isolated Bovine Ocular Smooth Muscle*. FASEB J. 2013 27:1178.2
36. Robinson J., **Njie-Mbye Y\*\*.**, Okpobiri A., Chitnis M., Opere C. A., Ohia S. E. *Hydrogen Sulfide Increases Aqueous Humor Outflow in Porcine Trabecular Meshwork*. FASEB Journal 2013, 27:1178.1
37. Opere C. A., Jamil J. M., Slavi A., Brankhele P., Flowers A., Floyd N., Durand T., Galano J.M., Guy A., Oger C., **Njie-Mbye Y\*\*.**, Kulkarni M., Ohia S. E. *Regulation of Potassium-induced [3H]D-Aspartate Release from Isolated Bovine Retina by 5-epi-5-F3t-Isoprostane: Role of Prostanoid Receptors*. FASEB Journal 2013, 27:1174.6
38. **Njie-Mbye Y\*\*.**, Kulkarni M., Opere C. A., Ohia S. E. *Hydrogen sulfide: Endogenous Production and Regulatory Role in Ocular Tissues*. Nitric Oxide. 2012 Supplement 2.
39. Kulkarni M., **Njie-Mbye Y\*\*.**, Opere C. A., Whiteman M., Ohia S. E. *Effect of Slow Releasing Hydrogen Sulfide Donor GYY4137 on Isolated Bovine Ciliary Artery*. Investigative Ophthalmology and Visual Sciences. 2012, 53: E-Abstract 6866
40. Opere C. A., Flowers A., Floyd N., Kegey E., Jamil J. M Durand T., Galano J.M., Guy A.,

- Njie-Mbye Y\*\*.**, Ohia S. E. *Role of Prostanoid Receptors in the Excitatory Effect of Neuroprostanes on Potassium Induced [<sup>3</sup>H]D-Aspartate Release in Isolated Bovine Retina.* Investigative Ophthalmology and Visual Sciences. 2012 53: E-Abstract 5386
41. Stroud D.D., Kulkarni M., **Njie-Mbye Y\*\*.**, Opere C. A., Ohia S. E. *Pharmacological Actions of L-cysteine on Isolated Bovine Irides.* FASEB Journal. 2012 26: E-Abstract 1049.4
42. Flowers A., Floyd N., Kegey E., Jamil J. M Durand T., Galano J.M., Guy A., Kulkarni M., **Njie-Mbye Y\*\*.**, Ohia S. E., Opere C. A. *Regulation of K<sup>+</sup>-induced [<sup>3</sup>H]D-Aspartate Release by Synthetic Neuroprostanes in Isolated Bovine Retina.* FASEB J. 2012 26: E-Abstract 843
43. Opere C. A., **Njie-Mbye Y\*\*.**, Jamil J. M., Durand T., Galano J.M., Guy A., Kulkarni M., Zhao M., Ohia S. E. *Regulation Of Cyclic AMP Production In Rat RPE-J Cells By The Synthetic Neuroprostanone, BA-12high.* Investigative Ophthalmology and Visual Sciences. 2011, 52: E-Abstract 2067
44. Kulkarni M., **Njie-Mbye Y\*\*.**, Okpobiri I, Zhao M, Opere C. A., Ohia S. E. *Regulation of Endogenous Hydrogen Sulfide Production in Isolated Bovine Retina by Carbon Monoxide And Nitric Oxide.* Investigative Ophthalmology and Visual Sciences. 2011, 52: E-Abstract 5669
45. Zhao M., Taylor K., **Njie-Mbye Y\*\*.**, Kulkarni M., Opere C. A., Ohia S. E. *Hydrogen Sulfide-Induced Relaxation of Isolated Bovine Ciliary Artery.* Investigative Ophthalmology and Visual Sciences. 2011, 52: E-Abstract 2658
46. Kegey E., Jamil J. M., Harrison N., Wright A., Durand T., Galano J.M., Guy A., **Njie-Mbye Y\*\*.**, Ohia S. E., Opere C. A. *Role of Prostanoid Receptors in the Inhibitory Effect of Synthetic Isoprostanes on Potassium-Induced [<sup>3</sup>H]D-Aspartate Release in Isolated Bovine Retina.* FASEB Journal, 2011 25:799.4
47. **Njie-Mbye Y\*\*.**, Kulkarni M., Jackson D., Zhao M., Opere C. A., Ohia S. E. *Mechanism of Action of Hydrogen Sulfide on Cyclic AMP Formation in RPE-J Cells.* Investigative Ophthalmology and Visual Sciences. 2010, 51: E-Abstract 3328.
48. Ohia S. E., Kulkarni M., **Njie-Mbye Y\*\*.**, Jackson D., Zhao M., Opere C. A. *Measurement of Hydrogen Sulfide Concentration in Isolated Bovine Eyes.* Investigative Ophthalmology and Visual Sciences. 2010, 51: E-Abstract 3305
49. Opere C. A., Jamil J. M., Wright A., Durand T., Galano J.M., Guy A., **Njie-Mbye Y\*\*.**, Ohia S. E. *Regulation of [<sup>3</sup>H]D-Aspartate Release by Neuroprostanes in Bovine Retina, in vitro.* Investigative Ophthalmology and Visual Sciences. 2010, 51: E-Abstract 3315.

50. **Njie-Mbye Y\*\*.**, Kulkarni M., Opere C. A., Ohia S. E. *Hydrogen Sulfide Stimulates Cyclic AMP Formation In Mammalian Retina Through the Adenylyl Cyclase Pathway* FASEB Journal. 2010, 24:962.2
51. Opere C. A., Jamil J., Wright A., **Njie Y\*\*.**, Ohia S.E. *Peroxide-Induced Production of Metabolites of Polyunsaturated Fatty Acids in Bovine Retina, in vitro.* FASEB Journal, 2010 24:971.2
52. **Njie Y \*\*.**, Onyema C. C., Bongmba O. Y. N., Chitnis A., Opere C. A., Ohia S. E. *Regulation of Cyclic AMP Production in Rat RPE-J Cells by Hydrogen Sulfide.* Investigative Ophthalmology and Visual Sciences. 2009, 50: E-Abstract 67.
53. Song Z.H., Xiao Z., Wang W., and **Njie Y\*\*.** *CB1 and CB2 Agonists Increase Uveoscleral Outflow.* Investigative Ophthalmology and Visual Sciences. 2009, 50: E-Abstract 1478
54. **Njie Y \*\*.**, Bongmba O. Y. N., Opere C. A., McKoy M.A., Ohia S.E. *Regulation of Mammalian Retinal Neurotransmitter Function by Hydrogen Sulfide: Role of Cyclic AMP.* Investigative Ophthalmology and Visual Sciences. 2008, 49: E-Abstract 2005.
55. Song Z.H., He F., Qiao Z., **Njie Y\*\*.** *Aqueous Humor Outflow Effects of 2-Arachidonylethanolamide.* Investigative Ophthalmology and Visual Sciences. 2008, 49: E-Abstract 360.
56. **Njie Y \*\*.**, Qiao Z., Xiao Z., Song Z.H. *N-Arachidonylethanolamide-Induced Increase in Aqueous Humor Outflow Facility.* Investigative Ophthalmology and Visual Sciences. 2007, 48: E-Abstract 3942.
57. Song Z.H and **Njie Y\*\*.** *Effect of the Endocannabinoid Noladin Ether on Aqueous Humor Outflow Facility.* Investigative Ophthalmology and Visual Sciences. 2005, 46: E-Abstract 3668

#### **MANUSCRIPTS IN PROGRESS:**

Robinson J., Opere C, Ohia S.E., **Njie-Mbye Y\*\*.** *Effects of H<sub>2</sub>S on Ocular Perfusion Pressure: Role of Prostanoids*

Robinson J, Whiteman M., Opere C, Ohia S.E., **Njie-Mbye Y\*\*.**, *Pharmacological Effects of Novel Mitochondrial Targeting Hydrogen Sulfide-Releasing Compounds in Isolated Porcine Iris-ciliary Bodies*

Chitnis M., Remington B., Robinson J, Mitchell L, Chitnis M, Opere C, Ohia S.E., **Njie-Mbye Y\*\***,. *Interaction Between Hydrogen Sulfide, Nitric Oxide and Carbon Monoxide In Isolated Bovine Retina*

**Njie-Mbye Y\*\***, Opere C.A., Kulkarni M., Ohia S.E. *Hydrogen Sulfide: Physiological, Pharmacological and Toxicological Role in the Eye*. A review.

### **OTHER CONFERENCES AND SYMPOSIUMS:**

1. Ohia, S.E., **Njie-Mbye, Y.F\*\***, Opere, C.A., Robinson, J., Mitchell-Bush, L., Whiteman, M. *Hydrogen Sulfide-Releasing Compounds: Potential Role In Glaucoma Pharmacotherapy*. Abstract presented at the International Society For Eye Research. Belfast, Northern Ireland, UK. September 9-13, 2018
2. Ohia SE., Bush L., Robinson J., Opere CA., **Njie-Mbye Y\*\***. *A Neuroprotective Action Of Cannabinoids In The Bovine Isolated Retina: Role Of Hydrogen Sulfide*. Abstract presented at the World Congress of Basic and Clinical Pharmacology. Kyoto, Japan. July 1-6, 2018
3. Opere CA., Salvi A., Bankhele P., Jamil J., Kulkarni-Chitnis M., **Njie-Mbye Y\*\***, Ohia SE. *Pharmacological Actions of Hydrogen Sulfide Donors on Sympathetic Neurotransmission in the Bovine Anterior Uvea, In Vitro*. Abstract presented at the Neurovascular and Neurodegenerative Diseases (NVND) conference. Narita, Japan .Oct 14 -17, 2018
4. Robinson J., Mitchell L., Ngele K., Whiteman. M., Opere CA., Ohia SE and **Njie-Mbye Y\*\***. *Inhibitory Action Of Mitochondrial-Targeting Hydrogen Sulfide Releasing Compounds On Porcine Isolated Irides*. Abstract presented to Research Week, Texas Southern University, Houston, Texas. March 27-31, 2017
5. Ohia S.E., Ajelabi E., Anyikwa C., Robinson J., Bush L., Opere C.A., **Njie-Mbye Y\*\***. *Role of Prostaglandins and Acetylcholine in the Pharmacological Actions of Hydrogen Sulfide-Releasing Compounds in Bovine Isolated Irides*. Abstract presented at NAPPSA meeting, Houston, TX. September 21- 24, 2017.
6. Mitchell L, Robinson, J., Ngele K.K., Opere CA., Sunny E. Ohia., **Njie-Mbye Y\*\***. *Neuroprotective Actions Of Cannabinoids In The Bovine Isolated Retina: Role Of Hydrogen Sulfide*. Abstract presented at NAPPSA meeting, Houston, TX. September 21-24, 2017.
7. Jenaye Robinson J., Mitchell L., Kutse S., Onyenaka C., Ebuzoeme K., Opere., Ohia SE., **Njie-Mbye Y\*\***. *Effect Of Hydrogen Sulfide On Aqueous Humor Outflow Facility Under Normal And Elevated Ocular Perfusion Pressure*. Abstract presented at NAPPSA

meeting, Houston, TX. September 21- 24, 2017.

8. Ohia S. E., **Njie-Mbye Y\*\*.**, Robinson J., Mitchell L., Opere C. A. Role of gasotransmitters in ocular health and disease – Minisymposium. *Hydrogen sulfide: Physiological and pharmacological role in ocular tissues*. Abstract presented at ARVO meeting, Denver, Colorado. May 3-7, 2015.
9. Robinson J., Ezuedu C., Mitchell L., Chitnis M., Opere C. A., **Njie-Mbye Y\*\*.**, Ohia S. E. *Involvement of  $K_{ATP}$  channels in  $H_2S$ - Induced Increase in Aqueous Humor Outflow*. Abstract presented to Research Week, Texas Southern University, Houston, Texas. April 1-7, 2014.
10. Robinson J., Okpobiri A., Chitnis M., Opere C. A., Ohia S. E. **Njie-Mbye Y\*\*.** *Hydrogen Sulfide Increases Aqueous Humor Outflow in Porcine Trabecular Meshwork*. Abstract presented to Undergraduate Research Day at the Capitol, Austin Texas. April 25- 26, 2013.
11. Robinson J., Okpobiri A., Chitnis M., Opere C. A., Ohia S. E., **Njie-Mbye Y\*\*.** *Hydrogen Sulfide Increases Aqueous Humor Outflow in Porcine Trabecular Meshwork*. Abstract presented to Research Week, Texas Southern University, Houston, Texas. April 2-5, 2013.
12. Kulkarni M, **Njie-Mbye Y\*\*.**, Okpobiri I, Zhao M, Opere C. A., Ohia S. E. *Effect of carbon monoxide (CO) and nitric oxide (NO) on endogenous levels of hydrogen sulfide ( $H_2S$ ) in isolated bovine retinae*. Abstract presented to Research Week, Texas Southern University, Houston, Texas. April 5-8, 2011.
13. Kulkarni M, **Njie-Mbye Y\*\*.**, Okpobiri I, Zhao M, Opere C. A., Ohia S. E. *Endogenous Production Of Hydrogen Sulfide In Isolated Bovine Eyes*. Abstract presented at the 12<sup>th</sup> Research Centers in Minority Institutions (RCMI) meeting, Nashville, Tennessee. December 6-9, 2010.
14. **Njie-Mbye Y\*\*.**, Kulkarni M, Opere C. A., Zhao M, Ohia O.I., Okpobiri I, Ohia S. E. *Neuroprotective Role of Hydrogen Sulfide in Mammalian Retina*. Abstract presented at the Fourth Annual Scientific Conference of the Nigerian Association of Pharmacists and Pharmaceutical Scientists in the Americas (NAPPSA), Dallas, Texas. September 16-19, 2010.
15. Ohia S. E., **Njie-Mbye Y\*\*.**, Zhao M., Kulkarni M, Monjok E.M., Kulkarnin K.H., Bongmba O. Y. N., Chitnis A., Kouamo G, Opere C. A. *IOP Modulation & Retinoprotection With Hydrogen Sulfide And Carbon Monoxide*. Abstract presented at ISER meeting, Montreal, Canada. July 18-23, 2010.

16. **Njie-Mbye Y\*\*.**, Kulkarni M., Opere C. A., Ohia S. E. *Hydrogen Sulfide Stimulates Cyclic AMP Formation In Mammalian Retina Through the Adenylyl Cyclase Pathway.* Abstract presented to Research Week, Texas Southern University, Houston, Texas. April 5-9, 2010.
17. Kulkarni M., **Njie-Mbye Y\*\*.**, Zhao M., Opere C. A. Ohia S. E., *Measurement of Hydrogen Sulfide Production in Bovine Eyes.* Abstract presented to Research Week, Texas Southern University, Houston, Texas. April 5-9, 2010.
18. **Njie Y \*\*.**, Onyema C. C., Bongmba O. Y. N., Chitnis A., Opere C. A., Ohia S.E. *Effect of Hydrogen Sulfide on Cyclic AMP Production in Isolated Mammalian Neural Retinae.* Abstract presented to Research Week, Texas Southern University, Houston, Texas. March 30- April 6, 2009.
19. **Njie Y\*\*.**, Monjok E.M., Kulkarnin K.H., Bongmba O.Y.N., Opere C.A., Ohia,S.E. *Mechanism of Action of Hydrogen Sulfide on Neurotransmitter Release from Mammalian Anterior Uvea and Retina.* Abstract presented to Asia-ARVO meeting, Hyderabad, India, January 15-18, 2009.
20. Song Z.H., Qiao Z., Xiao Z., **Njie Y\*\*.** *N-Arachidonylethanolamide-Induced Increase in Aqueous Humor Outflow Facility.* Abstract presented to The International Cannabinoid Research Society (ICRS), 17<sup>th</sup> Annual Symposium, St Sauveur, Canada. June 26-July 1, 2007.
21. Song Z.H. and **Njie Y\*\*.** *Effect of the Endocannabinoid Noladin Ether on Aqueous Humor Outflow Facility.* Abstract presented to Research Louisville, University of Louisville School of Medicine, Louisville, Kentucky. November 2005.
22. **Njie Y \*\*.**, Smith N., Cai J., Pierce W.M., Javed K. *Mass Spectrometry Identification and Characterization of Sickle Heterozygous Hemoglobin.* Abstract presented to Summer Research Opportunity Program (SROP), University of Louisville School of Medicine, Louisville, Kentucky and Kentucky Academic of Science (KAS), Morehead, Kentucky. August 2002
23. **Njie Y \*\*.**, Dosunmu E., Javed K. *The Effect of Ultrasonic Agitation on Multiwall Carbon Nanotubes.* Abstract presented to Undergraduate Research and Scholarly Activity (URSA), Posters- at-the-capitol, Frankfort, Kentucky. February 2002

## **OTHER PRODUCTS OF SCHOLARLY ACTIVITY:**

### **Thesis/Dissertation Advisory Committees**

Jenaye Robinson. Major Advisor. ***Dissertation: The Role of Hydrogen Sulfide in the Trabecular Meshwork Outflow Pathway***- Ph.D candidate in Pharmaceutical Sciences, COPHS,TSU; Graduated 2018. Currently Scientist at Eli Lilly Pharmaceutical Company, Indianapolis, IN

Mounira Omar Morgem. Committee Member. ***Thesis: Paradoxical Regulation of Human Lung Adenocarcinoma Cell Line (H1299) Proliferation by Extract of Hydnora Johannis Becc (Kausen Kasa) Mediated by Estrogen Receptor/Egfr and/or Protein Kinase C Activation***. M.S. Environmental Toxicology, COSET, TSU; Graduated 2018

Leah Mitchell. Co Advisor. ***Dissertation: The Role of Hydrogen Sulfide in Endocannabinoid-induced Retinal Neuroprotection***- Ph.D in Pharmaceutical Sciences, COPHS, TSU; Graduated 2017  
Currently Faculty at Prairie View A&M University, Prairie View, TX

Abdullah Odah Alatawi. Committee Member. ***Dissertation: PPAR $\alpha$  and the involvement of CD36 and Th17 in amelioration of inflammation and ROS generation in Ang II-induced hypertensive kidney injury***. Ph.D in Pharmaceutical Sciences, COPHS, TSU; Graduated 2016

Dakota Jackson. Committee Member. ***Dissertation: The Effects of Inflammatory Insults On Astroglial CB2R Expression and Anti-inflammatory Responses***- Ph.D in Pharmaceutical Sciences, COPHS,TSU.-Graduated 2016

Syntia Engiasa Kwende. Committee Member. ***Thesis-Evaluation of Antiproliferative and Cytotoxic Properties of Herbal Supplement SAABFAT6 on Human Colorectal Adenocarcinoma (HT29) and Human Alveolar Adenocarcinoma (A549) Cell Lines***. M.S. Environmental Toxicology, COSET,TSU; Graduated 2015

Madhura Kulkarni Chitnis. Co-Advisor. ***Dissertation: Pharmacological Role of Hydrogen Sulfide in the Posterior Segment of the Eye***- Ph.D in Pharmaceutical Sciences, COPHS,TSU; Graduated 2014. Currently Research Analyst at Truven Health Analytics in Cambridge, MA

Sarah Munyu. Committee Member. ***Thesis: Effects of Xenoestrogen Bisphenol on Renal and Vascular Function***- M.S. Environmental Toxicology, COSET,TSU; Graduated 2012

### **Mentoring and Supervision of Research Activity**

- 1) Raymond Ahaiwe (Pharm.D student, 2016- 2017)
- 2) Crystal Aladume (Pharm.D student, 2016-2017)
- 3) Lillian Njoku (Pharm.D student, 2016- 2017)
- 4)
- 5) Leanna Mack (Undergraduate student, Summer 2016)

- 6) Chika Ogba (Pharm.D student, Summer 2016)
- 7) Christine Ly (Undergraduate student, Summer 2015)  
**Award:** Recipient of the 2015 FASEB MARC Student Travel Award
- 8) Cherie Chua (Undergraduate student, Summer 2015)
- 9) Cheryl Chua (Undergraduate student, Summer 2015)
- 10) Olivia Nguyen, (Undergraduate student, Summer 2014, 2015, 2016)  
**Award:** Recipient of the 2014, 2015 FASEB MARC Student Travel Award. Outstanding Undergraduate Research Award Recipient, Second Place –Summer Undergraduate Research Program, Texas Southern University, 2014
- 11) Oluwaseyi Fasiku, (Pharm.D student, Summer 2014)  
**Awards:** Recipient of the 2014 FASEB MARC Student Travel Award. Best Pharmacy Student Presentation, Summer Undergraduate Research Program, Texas Southern University, 2014
- 12) Nneoma Agwu, (Pharm.D student, Summer 2014)
- 13) Esther Okoro, (Pharm.D Student, Summer 2014)  
**Award:** Recipient of the 2014 FASEB MARC Student Travel Award. Oral Platform Finalist –Summer Undergraduate Research Program, Texas Southern University, 2014
- 14) Jenaye Robinson, B.S. (Ph.D student, 2014-2018)  
(Undergraduate Student, 2012-2013)  
**Awards:** Recipient of the Delores Shockley Award-ASPET, Experimental Biology 2014, 2016 San Deigo CA. Recipient of the 2013, 2014, and 2015 FASEB MARC platform travel ward to present her research work at the annual Experimental Biology meeting in Boston, MA and San Deigo CA; Abstract selected as "Hot Topic" at the 2015 Association for Research in Vision and Ophthalmology (ARVO) meeting in Denver, CO. Outstanding Abstract selected to participate in ASPET Best Abstract competition, Experimental Biology 2014, San Deigo CA; Recipient of the ASPET-Young Investigator Award For Drug Discovery and Development, Experimental Biology 2014, 2016 San Deigo CA; Outstanding Abstract selected to participate in the Texas Undergraduate Research Day at the Capitol, Austin Texas 2013; Outstanding Research Award Recipient - Research week, Texas Southern University 2013, 2014; Oral Platform Finalist –Summer Undergraduate Research Program, Texas Southern University, 2012

- 15) Leah Mitchell, B.S. Ph.D (Ph.D student, 2013-2017)  
**Awards:** Recipient of the 2014, 2015 and 2016 FASEB MARC Student Travel Award to present her research work at the annual Experimental Biology meetings; Recipient of the WEAVER Travel award to showcase her research at the 2015 Association for Research in Vision and Ophthalmology (ARVO) meeting in Denver,CO; Abstract selected as "Hot Topic" as well as to participate in the MIT Outstanding Poster Award Competition at ARVO.
- 16) Remington Belford (Undergraduate Student, Summer, 2013)  
**Award:** Oral Platform Finalist –Summer Undergraduate Research Program, Texas Southern University, 2013
- 17) Ashley Webber (Undergraduate Student, Summer, 2013, 2014)
- 18) Chinonso Ezeudu (Pharm.D Student, 2013)  
**Award:** Recipient of travel award from Office of Research, Texas Southern University to attend 48th ASHP Midyear Clinical Meeting & Exhibition, Orlando, FL
- 19) Anita Okpobiri (Undergraduate Student, Summer, 2012, 2013)  
**Awards:** Recipient of the 2013 FASEB MARC platform travel ward to present her research work at the annual Experimental Biology meeting Boston, MA. Outstanding Abstract selected to participate in ASPET Best Abstract competition, Experimental Biology 2013, Boston, MA
- 20) Gilbert Bongmba (Undergraduate Student, Summer, 2012)
- 21) Destinee Stroud (Undergraduate Student, Summer, 2011)  
**Awards:** Recipient of the 2012 FASEB MARC platform travel ward to present her research work at the annual Experimental Biology meeting, San Deigo, CA; Outstanding Abstract selected to participate in ASPET Best Abstract competition, Experimental Biology 2012, San Deigo, CA; Outstanding Research Award Recipient –Summer Undergraduate Research Program, Texas Southern University, 2011;Recipient of the 2011 FASEB MARC travel award to attend the Annual Biomedical Research Conference for Minority Students, St Louis, MO.
- 22) Kiara Taylor (Undergraduate Student, Summer, 2010)  
**Awards:** Outstanding Research Award Recipient –Summer Undergraduate Research Program, Texas Southern University, 2010.
- 23) Min Zhao, Ph.D (Post-doctoral Fellow, 2010-2011)

- 24) Madhura Kulkarni, M.Pharm., Ph.D (Ph.D student, 2009-2014)-Currently Research Analyst at Truven Health Analytics in Cambridge, MA
- 25) Ike Okpobiri (Undergraduate Student, Summer, 2009; 2010; 2011)

## **RESEARCH SUPPORT**

### **COMPLETED**

2016-2017 “*Pharmacological Studies of Santen Compounds on Isolated Bovine Ciliary Muscles and Arteries, in vitro.*”

Agency: Santen Inc. Total Amount \$35,750.

Principal Investigators: Y. Njie-Mbye., SE Ohia

Role: Co-PI

2015-2016 “*Effect of Suppressatite and some Constituents of its Formulation on Serotonin and Neuropeptide Y Concentrations in Rat Brain Cortex and Hypothalamus in vitro.*”

Agency: Cepham Inc. Total Amount \$25,000.

Principal Investigators: Y. Njie-Mbye., SE Ohia

Role: Co-PI

2012-2016 “*Hydrogen Sulfide-Releasing Compounds and Intraocular Pressure Regulation.*”

Agency: National Institute of Health/National Eye Institute AREA Grant.

Total Amount \$418,561.

[NIH Grant number 1R15EY022215-01]

Principal Investigator: Y. Njie-Mbye

Role: PI

2009-2010 “*Pharmacological studies of Ocular Receptors*”

Agency: Alcon Research Limited. Total Amount \$65,000

Principal Investigator: SE. Ohia

Role: Co-investigator

2007-2008 “*Pharmacological studies of Ocular Receptors*”

Agency: Alcon Research Limited. Total Amount \$50,000

Principal Investigator: SE. Ohia

Role: Co-investigator

### **PENDING/CURRENTLY UNDER REVIEW**

*NIH/NEI – R15 AREA Grant*

*Hydrogen Sulfide and Aqueous Humor Outflow. The goal of this project is to study the role of H<sub>2</sub>S in the pathway and processes involved in the regulation of aqueous humor dynamics.*

*Role: PI*

*NIH/NEI –R15 AREA Grant*

*Hydrogen Sulfide and Ocular Vascular Dysfunction in Glaucoma*

*The goal of this project is to study the role of H<sub>2</sub>S in the pathway and processes involved in the regulation of ocular vascular tone under conditions of increased IOP.*

*Role: PI*

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***References Available Upon Request***

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**CURRICULUM VITAE**

*Sunny E. Ohia, Ph.D., FARVO, FAS.*

*Revised August 2018*

**NAME:** Sunny E. OHIA

**ADDRESS:** (Home) 2918 Wickwood Drive  
Pearland, TX 77584  
Phone: (713) 436-5755  
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(Work) Texas Southern University  
College of Pharmacy and Health Sciences  
Department of Pharmaceutical Sciences  
3100 Cleburne Street  
Houston, TX 77004  
Phone: (713) 313-4450  
E-mail: ohias@tsu.edu

## **EDUCATION**

### **Institution:**

- (a) University of Ibadan, Nigeria (1975-1978).
- (b) University of Ibadan, Nigeria (1979-1981).
- (c) University of Glasgow, United Kingdom (1982-1986).

### **Degrees Earned:**

- (a) ***Bachelor of Science*** (B.Sc.) in Pharmacology with Second Class Honors (Upper Division - equivalent to Magna Cum Laude) - July, 1978.
- (b) ***Master of Science*** (M.Sc.) in Pharmacology and Therapeutics - September, 1981.  
Thesis Supervisor: Professor D.T. Okpako.
- (c) ***Doctor of Philosophy*** (Ph.D.) in Pharmacology - August, 1986.  
Thesis Supervisors: Professor John Gillespie and Dr. Frances Boyle.  
Thesis Examiner: Late Professor Sir James W. Black, *Nobel Laureate*.

### **Special Professional Training Programs:**

- (1) Postdoctoral training in Neuroscience, Memorial University of Newfoundland, St. John's, Canada, with Professors Christopher R. Triggle and Detlef Bieger (1986-1988).
- (2) Postdoctoral training in Ophthalmology and Visual Sciences, University of Louisville, Louisville, Kentucky, with late Professor James E. Jumblatt (1988-1991).

## **TEACHING AND RESEARCH APPOINTMENTS**

### **Instituto Teofilo Hernando, Universidad Autonoma de Madrid, Spain**

2015 – present: Adjunct Research Fellow, Pharmacology Group

**Texas Southern University, Houston, Texas:**

2010 – present: Faculty Fellow, Thomas F. Freeman Honors College

2008 – present: Professor of Pharmacology, College of Pharmacy and Health Sciences

**University of Houston, Houston, Texas:**

2002 – 2008: Professor of Pharmacology, Department of Pharmacological and Pharmaceutical Sciences

**University of Texas Health Sciences Center, Houston, TX**

2004 – present: Adjunct Professor of Integrative Biology and Pharmacology

**University of Nebraska Medical Center, Omaha, Nebraska:**

2000 – present: Adjunct Professor, Department of Ophthalmology

1995 -2000: Adjunct Associate Professor, Department of Ophthalmology

**Akwa Ibom State University, Akwa Ibom State Nigeria:**

2010-present: Distinguished Visiting Professor

**Lambo Eye Institute, Eye Foundation, Lagos, Nigeria:**

2000-present: Visiting Professor

**Creighton University School of Pharmacy and Health Professions, Omaha, Nebraska:**

2000-2002: Professor, Department of Pharmacy Sciences  
Professor, Department of Pharmacology, School of Medicine (secondary appointment)  
Professor, Department of Biomedical Sciences, School of Medicine (secondary appointment)

1995-2000: Associate Professor with Tenure, Department of Pharmaceutical and Administrative Sciences  
Associate Professor, Department of Pharmacology, School of Medicine (secondary appointment)

1992-1995: Assistant Professor, Department of Pharmacology (secondary appointment)

1991-1995: Assistant Professor, Department of Pharmaceutical Sciences  
Coordinator of Pharmacology Program

**Kentucky Lions Eye Research Institute, University of Louisville School of Medicine, Louisville, Kentucky:**

1988-1991: Research Associate, Department of Ophthalmology and Visual Sciences

**Memorial University of Newfoundland, Canada:**

1986-1988: Postdoctoral Research Fellow, Faculty of Medicine

**University of Glasgow, United Kingdom:**

1982-1986: Graduate Demonstrator, Department of Pharmacology

**University of Ibadan, Nigeria:**

1979-1982: Graduate Assistant, Department of Pharmacology and Therapeutics

**School of Health Technology, Jos, Nigeria:**

1978-1979: Pharmacology Instructor

**ADMINISTRATIVE APPOINTMENTS**

**Texas Southern University, Houston, Texas:**

September 2008 – May 2014: Provost; Vice President for Academic Affairs and Vice President for Research.

*In these capacities, I served as Chief Academic Officer and Chief Research Officer of the University.*

As Provost, with a budget of over \$90 million, I provided administrative oversight for academic, research and scholarly activities on campus. I also provided leadership for enrollment management (recruitment, admissions and retention services, Registrar's Office), Libraries/Museums, Continuing Education, Student Academic Enhancement Services (focus on student retention), Institutional Assessment/Effectiveness and Strategic Planning on campus. I supervised 10 academic deans in the following colleges and schools: College of Liberal Arts and Behavioral Sciences, Jesse H. Jones School of Business, College of Education, The Graduate School, Thurgood Marshall School of Law, College of Pharmacy and Health Sciences, College of Science and Technology, Barbara Jordan-Mickey Leland School of Public Affairs, School of Communication and the Thomas F. Freeman Honors College. Together, these colleges and schools offer 53 baccalaureate degree programs, 36 master's degree programs, three Doctor of Philosophy degree programs and three professional doctoral degrees in education, law and pharmacy. The wide variety of academic program offerings gives our diverse student body an excellent opportunity to learn from over 500 full-time dedicated faculty. Highlights of accomplishments during my tenure include:

- Establishment of a new Thomas F. Freeman Honors College: a major focus of my vision for academic excellence.
- Led the change in academic leadership resulting in the appointment of nine new permanent and six interim deans.
- Led campus-wide strategic planning effort: a new 2009-2015 Strategic Plan was approved by the Board of Regents (February 2010).
- Led campus-wide university accreditation effort from the Southern Association of Colleges and Schools (SACS). A Compliance Certification Report was submitted on September 15, 2010. The University was reaffirmed by SACS for 10 years in December 2011.

- Establishment of Texas Southern University (TSU) Higher Education Center in Northwest Houston: Partnership with Lone Star College, University of Houston, University of Houston-Downtown, Prairie View A&M University and Sam Houston State University. TSU offers B.S. (Administration of Justice; Environmental Health; Computer Engineering Technology; Electronics Engineering Technology; Aviation Science Management), B.A. (Entertainment and The Recording Industry) and B.B.A. (Management Information System) degrees.
- Establishment of an educational partnership with Wiley College, Marshall, Texas, leading to the offering of a TSU Master's degree in the Administration of Justice on the Wiley College campus.
- Establishment of new degree programs: On-line (Executive M.B.A., Executive M.P.A., M.Ed in Bilingual Education), Ph.D. in the Administration of Justice, B.S. in Maritime Transportation Management and Security, and a B.S. in Emergency Management and Homeland Security.
- Establishment of a new academic department: Environmental Science and Technology, in the College of Science and Technology. The Department will offer a new baccalaureate degree in Environmental Science and Technology.
- Establishment of TSU at DeLuxe Theater/Library Complex: Partnership with the City of Houston and Fifth Ward CRC. TSU will provide educational and entertainment programming in the musical and performing arts geared towards diverse audiences (youth, adult and multi-ethnic populations).
- Provided leadership for the development of a Strategic Plan for enrollment management on campus.
- Establishment of research partnership with the University of Houston System.
- Created a new Center for Online Education and Instructional Technology: increase in the number of classes offered on-line.
- Establishment of a new Teaching and Learning Excellence Center as a major focus for faculty development/training in the teaching pedagogy.
- Providing direct leadership (as Director) for a new SACS mandated university Quality Enhancement Plan (QEP) Office to deliver a literacy-focused QEP.
- Providing leadership for the establishment of a new residential learning community (The Urban Academic Village) to increase the retention of freshmen on campus.
- Provided leadership for increasing the number of International Educational and Research Partnerships with universities in Africa, especially in Ethiopia, Nigeria and Tanzania.
- Reorganized the Division of Academic Affairs and Research, which led to the creation of new offices for Associate/Assistant Provosts for Academic Affairs, Research, Institutional Assessment/Planning/Effectiveness and Online and Distance Education.

**University of Houston, Houston, Texas:**

2002-2008: Dean, College of Pharmacy.

I served as dean at the second oldest College of Pharmacy in Texas with an enrollment of over 500 professional

pharmacy and 71 graduate students (pursuing M.S. and Ph.D. degrees). The college had 53 full-time and over 700 adjunct faculty housed in two academic departments and four research centers. The operating budget was about \$13 million with \$4 million derived from external research funding. Highlights of accomplishments during my tenure include:

- About 50% net increase in the growth of faculty FTEs
- Established a new undergraduate degree program in pharmaceutical sciences and a new Ph.D. program in pharmacy administration (awaiting final approval from Texas Higher Education Coordinating Board)
- About 400% increase in total research expenditures
- About 120% increase in the number of endowed scholarships (current market value is over \$1.5 million)
- About 70% increase in graduate student enrollment
- Over 105% increase in total expenditures from State government and local sources
- Improved research infrastructure by impaneling a Corporate Advisory Board and creating an Office of Research and two new research centers: Institute of Community Health and the Center for Experimental Therapeutics and Pharmacoinformatics
- Improved administrative resources by creating new Offices of Information Technology, Communications and Alumni Relations
- Recruitment of the first-ever endowed professor in the college

**Creighton University School of Pharmacy and Health Professions, Omaha, Nebraska:**

2000-2002: Associate Dean for Administration

1998-2000: Assistant Dean for Administration

I assisted the Dean with administrative duties and decisions including personnel issues, budget, organizational design, policy and guideline development, and development of new programs. Furthermore, I reviewed all affiliation contractual agreements and served as representative of the school and the Dean's Office on University-wide committees. I also acted as dean in absence of the substantive Dean.

1997-1999: Director of Graduate Program, Department of Pharmaceutical & Administrative Sciences

I served as leader for a new graduate program in the pharmaceutical sciences. I also played a key role in the establishment of joint professional/graduate degree programs, such as the Pharm.D./M.S. and the Pharm.D./M.B.A.

1994-1998: Chairman, Department of Pharmaceutical and Administrative Sciences

1992-1994: Chairman, Department of Pharmaceutical Sciences

The department consisted of 18 members of faculty with specialization or interests in the following areas: pharmaceuticals, medicinal chemistry, toxicology, immunopharmacology, pharmacokinetics, drug metabolism, pharmacoconomics, pharmacy law and management, pharmacy administration, pharmacy ethics and geriatric pharmacy. The department had a vice chair who reported directly to the chair.

**PROFESSIONAL CONSULTANTSHIPS**

- Member, National Institutes of Health Director's Editorial Board: Reviewed Early Independence Award proposals as a member of Center for Scientific Review Special Emphasis Panel (ZRG1 BBBP-E 53),

June 7-8, 2012. The national Editorial Board selects 10 best Young Biomedical Investigators in the U.S. Since then, I have served on the Board for 2013, 2014, 2015, 2016 and 2017 reviews.

- Santen Inc., Emeryville, California (2016 – present)  
*My research team is screening a variety of chemicals and drugs for their potential therapeutic uses in the eye. The company is interested in the discovery of new drugs for treating eye diseases, such as uveitis and glaucoma.*
- Cepham Inc., Piscataway, New Jersey (2015-present)  
*My research team is screening nutraceuticals for potential pharmacological actions as anti-obesity agents.*
- Member, Southern Association of Colleges and Schools Commission on Colleges On-Site Review Committee for Reaffirmation of Georgia College and State University, April 8-10, 2014.
- Member, Southern Association of Colleges and Schools Commission on Colleges Off-Site Review Committee, November 8-9, 2012.
- External On-Site Evaluator for the Masters degree program in Pharmacology, Faculty of Medicine, Kuwait University, Kuwait, October 14-20, 2005.
- External On-Site Review for Basic Medical Sciences degree programs at the Faculty of Medicine, The University of the West Indies, Kingston, Jamaica, March 9-13, 2009 (Team Leader).
- Invited Reviewer, National Institutes of Health Study Sections, Bethesda, Maryland (2004-present):  
*Member, ETTN-90 Vision Small Business; March 2015.*  
*Member, Visual System SBIR ZRG1 BDCN-F (12); February, 2011; October, 2010; February, 2010; June, 2009; October, 2008; November, 2007; November, 2006; March, 2006; March, 2005; and, November, 2004.*  
*Chair, Visual System SBIR ZRG1 BDCN-J (10) June, 2004.*  
*Member, Visual Systems SBIR ZRG1 BDCN-F (10) (B) March, 2004; June, 2004.*  
*Member, Visual System Pharmacology ZRG1 BDCN-E (12) (M) March, 2004.*
- Windber Research Institute, Windber, Pennsylvania (2001-2004)  
*Member, Scientific Advisory Board*
- Lambo Eye Institute, Lagos, Nigeria (2000-present)
- InterHealth Nutraceuticals, Inc., Benicia, California (2000-2010)  
*Screening nutraceuticals for potential pharmacological effects*
- Blanchard and Loeb Publishers, LLC (1999–2004)  
*Member: Editorial Advisory Board, Nurse's Drug Loose Leaf, Nurse's Drug Handbook*
- Alcon Laboratories, Inc., Fort Worth, Texas (1993 – 2010)  
*I screened a variety of chemicals and drugs for their potential therapeutic uses in the eye. The company*

was interested in the discovery of new drugs for treating eye diseases, such as uveitis and glaucoma.

**LEADERSHIP TRAINING PROGRAMS**

- Executive Leadership Academy organized by American Association of State Colleges and Universities: a one-year leadership training program for cabinet-level administrators interested in presidency level appointments (2011-2012)
- American Association of State Colleges and Universities Provost to President Seminar, Orlando, Florida, February 11-13, 2011
- American Association of Colleges of Pharmacy (AACP) Leadership Program for Deans, Gallup University, Omaha, Nebraska, September 2007
- AACP Institute, “A Guide to Program Assessment: Developing a Plan”, Leesburg, VA (May 19-23, 2000)
- **Certificate in Foundations of Effective Management**, Creighton University, April 2000. *Course content: Framework for Supervision; Behavioral Style: Assessment and Impact; Effective Communication; Managing Conflict; Ethics of Choice; Managing Diversity; Effective Staffing Strategies; Performance Planning and Review; Laws, Policies and Employee Relations; Financial Responsibilities; and Motivation in the Workplace. (Total contact hours – 41.5.)*

**ACADEMIC DISTINCTIONS, FELLOWSHIPS AND AWARDS**

2015	Election to Fellowship of the Nigerian Academy of Science ( <b>F.A.S.</b> )
2010	Election to Phi Eta Sigma National Honor Society
2009	Fellow of the Association for Research in Vision and Ophthalmology ( <b>FARVO, Silver Medal</b> )
2001	National Institutes of Health Academic Research Enhancement Award
1998	National Institutes of Health Academic Research Enhancement Award
1995	Who’s Who in the World; National Institutes of Health Academic Research Enhancement Award
1992	Pharmaceutical Manufacturers Association Research Starter Award; American Association of Colleges of Pharmacy Grant Program for New Investigators Award; Election to Phi Beta Delta (Honor Society for International Scholars)
1991	American Society for Pharmacology and Experimental Therapeutics Young Scientist Travel Award to attend 1991 ASPET Meeting, San Diego, CA.; John C. Kenefick Faculty Development Award
1989-1991	University of Louisville School of Medicine Travel Award (1989, 1990 and 1991)
1986-1988	Postdoctoral Research Fellowship funded by Medical Research Council of Canada
1982-1986	University of Glasgow Postgraduate Award
1982-1986	Overseas Research Student Award ("O.R.S. Scholar") administered by the Committee of Vice-Chancellors and Principals of United Kingdom Universities based on academic merit and research potential
1976-1978	University of Ibadan Undergraduate Award ("University Scholar"), for being best student in the Faculty of Science (1975/76 session)

**MEMBERSHIP OF PROFESSIONAL SOCIETIES**

- Association of Chief Academic Officers of the Southern States (2008-2014)
- Texas Council of Chief Academic Officers (2008-2014)
- National Council of University Research Administrators (2008-2014)

- American Association of State Colleges and Universities (2008-present)
- American Association of Blacks in Higher Education (2008-2014)
- Nigerian Association of Pharmacists and Pharmaceutical Scientists (2006-present)
- The Association of African Biomedical Scientists (1999-present)
- National Pharmaceutical Association (1999-present)
- Catecholamine Club (1995-present)
- Association for Ocular Pharmacology and Therapeutics (1995-present)
- British Pharmacological Society (1994-present)
- International Society for Eye Research (1993-present)
- American Association of Colleges of Pharmacy (1992-present)
- The American Society for Pharmacology and Experimental Therapeutics (1990-present)
- The Association for Research in Vision and Ophthalmology (1988-present)
- Western Pharmacological Society (1995-2008)
- The United States Pharmacopeial Convention (2005-2010)
- Society for Free Radical Research-Africa (2004-2008)
- Omnicron Delta Kappa (2004-2008)
- Texas Pharmacy Association (2003-2008)
- American Pharmaceutical Association (2003-2008)
- American Society for Health-System Pharmacists (2002-2008)
- Texas Society of Health-System Pharmacists (2002-2008)
- Texas Pharmacy Congress (2002-2008)
- Sigma Xi (1992-2008)
- The New York Academy of Sciences (1991)
- American Association for the Advancement of Science (1991)
- Institute of Biology, United Kingdom (Chartered Biologist - 1983)

## **TEACHING ACTIVITIES**

### **Courses Taught at Graduate and Undergraduate Levels**

#### **TEXAS SOUTHERN UNIVERSITY:**

- 2018 Coordinator, Neuropharmacology (PHS 912); fall, 3 credit hours  
Instructor, Pathophysiology (PHAR 426); fall, 2 credit hours  
Coordinator, Ph.D. Research (PHS 916); fall, 2 credit hours  
Coordinator, Pharmacology (PHAR 428); spring, 2 credit hours  
Coordinator, Pharmacology (PHAR 428); summer, 2 credit hours  
Instructor, Principles of Drug Action I (PHA 530); fall, 3 credit hours  
Instructor, Principles of Drug Action I-Lab (PHAR 538); fall, 3 credit hours  
Co-Coordinator, Pharmacotherapy VII – Nutrition and Integumentary System, Eye and Ear Disorders (PHAR 644); spring, 4 credit hours  
Instructor, Advanced Pharmacology (PHS 809); spring, 3 credit hours
- 2017 Coordinator, Neuropharmacology (PHS 912); fall, 3 credit hours  
Instructor, Pathophysiology (PHAR 426); fall, 2 credit hours  
Instructor, Principles of Drug Action I (PHA 530); fall, 3 credit hours  
Instructor, Principles of Drug Action I-Lab (PHAR 538); fall, 3 credit hours  
Coordinator, Ph.D. Research (PHS 916); fall, 2 credit hours

- Coordinator, Pharmacology (PHAR 428); spring, 2 credit hours  
Coordinator, Pharmacology (PHAR 428); summer, 2 credit hours  
Co-Coordinator, Pharmacotherapy VII – Nutrition and Integumentary System, Eye and Ear Disorders (PHAR 644); spring, 4 credit hours  
Coordinator, Advanced Pharmacology (PHS 809); spring, 3 credit hours  
Coordinator, Ph.D. Research (PHS 916); spring 2 credit hours  
2016 Coordinator, Neuropharmacology (PHS 912); fall, 3 credit hours  
Instructor, Pathophysiology (PHAR 426); fall, 2 credit hours  
Instructor, Principles of Drug Action III (PHA 538); fall, 3 credit hours  
Instructor, Principles of Drug Action III-Lab (PHAR 538); fall, 3 credit hours  
Coordinator, Ph.D. Research (PHS 916); fall, 2 credit hours  
Coordinator, Principles of Drug Action I (PHAR 438); spring, 3 credit hours  
Co-Coordinator, Pharmacotherapy VII – Nutrition and Integumentary System, Eye and Ear Disorders (PHAR 644); spring, 4 credit hours  
Coordinator, Advanced Pharmacology (PHS 809); spring, 3 credit hours  
Coordinator, Ph.D. Research (PHS 916); spring 2 credit hours  
2015 Coordinator, Seminar/Special Topics (PHS 803); spring, I credit hour  
Co-coordinator, Pharmacotherapy VII (PHAR 644); spring, 4 credit hours  
Instructor, Ph.D. Research II (PHS 917 01); spring, 3 credit hours  
Instructor, Principles of Drug Action I (PHAR 438); spring, 3 credit hours  
2014 Coordinator, Advanced Pharmacology (PHS 809); fall, 3 credit hours  
Instructor, Principles of Drug Action I (PHAR 438); fall, 3 credit hours  
Instructor, Principles of Drug Action I Laboratory (PHAR 418); fall, 3 credit hours  
Instructor, Principles of Drug Action III (PHAR 538); fall, 3 credit hours  
Instructor, Principles of Drug Action III Laboratory (PHAR 518); fall, 3 credit hours  
2013 Instructor, Ph.D. Research (PHS 918 03); fall, 3 credit hours  
Instructor, Ph.D. Research (PHS 916 04); spring 2 credit hours  
2012 Instructor, Ph.D. Research (PHS 918 02); summer, 3 credit hours  
Instructor, Ph.D. Research (PHS 918 03); fall, 3 credit hours  
2011 Instructor, Ph.D. Research (PHS 916 07); fall, 3 credit hours  
2010 Instructor, Ph.D. Research (PHS 919 01); fall, 3 credit hours  
Instructor, Ph.D. Research (PHS 916 04); spring 2 credit hours  
Instructor, Ph.D. Research (PHS 916); summer, 3 credit hours

#### UNIVERSITY OF HOUSTON:

- 2005 Instructor, Advanced Pharmacology II (PCOL 6371). Lecture Topic: Anti-Inflammatory Agents - 4 credit hrs  
2006 Instructor, Principles of Drug Action (PHAR 2362). Lecture Topic: Anti-inflammatory Agents

#### CREIGHTON UNIVERSITY:

- 2000 – 2002: Course Co-Director, Pharmaceutical Effects on Human Performance for Occupational Therapy (OTD 351) – 2 credit hrs  
2000 – 2002: Course Co-Director, Pharmacotherapeutics for Physical Therapy (PTD 431) - 2 credit hrs  
1996 - 2002: Instructor, Pharmacy Pharmacology (PHR 241/242) - 10 credit hrs  
1994 - 2000: Course Director, Pharmaceutical Effects on Human Performance for Occupational Therapy

- (OTH 351) - 2 credit hrs
- 1994 - 1999: Course Director, Pharmacotherapeutics for Physical Therapy (PTD 431) - 2 credit hrs
- 1994 - 1999: Instructor, Introduction to Pharmaceutical Science Principles (PHA 317) - 1 credit hr
- 1995 - 1998: Coordinator, Pharmacy-Pharmacology (PHR 241/242) - 10 credit hrs
- 1995 - 1997: Instructor, Medical Pharmacology (PHR 221) - 10 credit hrs
- 1994 - 1997: Co-course Director, Professional Development Seminar (PHA 500) - 1 credit hr
- 1992 - 1996: Instructor, Nursing Pharmacology (PHR 141A) - 3 credit hrs
- 1992 - 1996: Instructor, Medical Pharmacology (PHR 221) - 10 credit hrs
- 1991 - 1995: Course Director, Pharmacy-Pharmacology (PHR 241/242). Organization of weekly recitation classes in Pharmacology - 10 credit hrs

Graduate School:

- 1999 - 2002: Course Director, Masters Independent Research (MPS 797)
- 1999 - 2002: Course Director, Masters Thesis (MPS 799)
- 1999 - 2002: Course Director, Directed Independent Research (MPS 693)
- 1998 - 2002: Course Director, Directed Independent Study (MPS 692)
- 1997 - 2002: Course Director, Ophthalmic Pharmacology (MPS 643) - 2 credit hrs.
- 1997 - 1999: Course Director, Research Methods (MPS 633) - 1-3 credit hrs
- 1997 - 1999: Course Director, Pharmaceutical Science Seminar (MPS 691) - 3 credit hrs

Preceptor for Elective Research Academic Clerkship (PHA 535) - 4 credit hours: I supervised a total of nine students (both research and academic clerkships) during the period, 1994-2004.

Supervision of Students in Directed Independent Research Elective Course (PHA 399/499) 1-2 credit hours: I supervised a total of 43 students during the period, 1992-2002.

Supervision of Students in Professional Practice Seminar Course (PPR 552) Poster Presentations: I supervised a total of nine students in 1995 and 1996.

Supervision of Student Projects for the Professional Development Seminar (PHA 500) Course: I supervised a total of 12 students during the period, 1997-2002.

Medical/Pharmacy Pharmacology Course: Taught the following subject areas: Non-narcotic Analgesics and Anti-inflammatory Drugs; Anti-gout Drugs; Cholinomimetics; Anticholinesterases; Ganglionic Stimulants and Blockers; Antimuscarinic Drugs; Ethanol and other Alcohols

Nursing Pharmacology Course: Taught the following subject areas: Cholinomimetics; Antimuscarinic Drugs; Non-narcotic Analgesics and Anti-inflammatory Drugs

Physical Therapy Pharmacology Course: Taught the following subject areas: General Pharmacology I & II; Autonomic Pharmacology I & II; Skeletal Muscle Pharmacology; General Anesthetics; Local Anesthetics; Endocrine Pharmacology I & II; Obstetrics & Gynecologic Pharmacology; Narcotic Analgesic Drugs; Antimicrobial Drugs I & II; Autacoid Pharmacology; Gastrointestinal Pharmacology; Antineoplastic; Antiviral & Antifungal Drugs

Occupational Therapy Pharmacology Course: Taught the following subject areas: General Pharmacology I & II; Autonomic Pharmacology I & II; Skeletal Muscle Pharmacology; General Anesthetics; Local Anesthetics; Endocrine Pharmacology I & II; Obstetrics & Gynecologic Pharmacology; Narcotic Analgesic Drugs;

Antimicrobial Drugs I & II; Autacoid Pharmacology; Gastrointestinal Pharmacology; Antineoplastic drugs; Antiviral and Antifungal Drugs, and six case study sessions

Introduction to Pharmaceutical Science Principles Course:

Taught the following subject areas: Principles of drug action; Introduction to Drug-Receptor Interactions; Receptor Families and Signal Transduction Mechanisms

**SUPERVISION OF RESEARCH ACTIVITY OF PRE- AND POSTDOCTORAL STUDENTS**

**Postdoctoral Training:**

- *Min Zhao, M.D., Ph.D.* (2009 - 2011)
- *Ya Fatou Njie-Mbye, Ph.D.* (2007 - 2009): Currently Assistant Professor, College of Pharmacy & Health Sciences, Texas Southern University
- *Emmanuel M. Monjok, M.D., M.P.H.* (2003-2005): Currently Research Assistant Professor, Institute of Community Health, College of Pharmacy, University of Houston
- *S. Olubusayo Awe, Ph.D.* (1998 – 2001): Currently a Scientist at the U.S. Food and Drug Administration, Washington, D.C
- *Catherine Opere, Ph.D.* (1997- 1998): Currently Associate Professor, Department of Pharmacy Sciences, Creighton University, Omaha, NE
- *Ferdy Ameh, D.V.M., M.S.* (1997): Currently a PharmD., M.B.A. graduate, School of Pharmacy and Allied Health Professions, Creighton University, Omaha, NE.
- *Immaculata N. A. Igbo, Ph.D.* (1995-1996): Currently Associate Professor, College of Nursing, Prairie View A&M University, Houston, TX
- *Mohamad Aiman Tawfig Khasawneh, M.D.* (1993): Currently consultant Ophthalmologist, Nuzha Street N: 2, Irbid – Jordan
- *Khamis Al-zadjali, M.D., Ph.D.* (1992-1993) : Currently Associate Professor, Department of Pharmacology, College of Medicine, Sultan Qaboos University, Muscat, Oman
- *Kehinde Animashaun, M.D.* (1992): Currently Pediatrician in private practice, Goshen, Indiana

**Predoctoral Training:**

- *Jenaye Robinson, Ph.D.* student (2014-present)
- *Leah Mitchell, Ph.D.* student (2013-present)
- *Madhura Kulkarni Chitnis, M.Pharm., Ph.D* student (2009-2014)
- *Kaustubh Kulkarni, B.Pharm., M.S.* student (2000-2002)
- *Angela M. LeDay, Pharm.D., Ph.D.* student (1999-2002)
- **Award:** Recipient of 2001 ASPET Minority Graduate Student Travel Award to attend Experimental Biology 2001 meeting, Orlando, FL., March 29-April 3
- *Lydia C. Harris, B.S. Pharmacy, M.S.* (1998-2000), now Lecturer in Pharmacology, University of Belize, Belize
- *Caroline Crocker, M.Sc.* (1996-1999). *Ph.D.* student of the University of Southampton, England, United Kingdom (co-supervisor)
- *Catherine Opere* (1993-1997), now tenured Associate Professor, Creighton University.
- **Awards:** Recipient of the 1994 Retina Foundation Travel Award to present an abstract of her research to the Association for Research in Vision and Ophthalmology meeting in Sarasota, Florida; Recipient of American Society of Pharmacology and Therapeutics Graduate Student Travel Award to present an

abstract of her research to the 1995 Federation of American Societies of Experimental Biology meeting in Atlanta, Georgia; Recipient of the Sigma Xi Grant-in-Aid of Research (1995)

### **Undergraduate Research Training:**

- *Juliet Appiah* (Was a Junior Pre-Medical major, University of Illinois)  
**Awards:** Recipient of the 2002 Summer Minority Undergraduate Research Fellowship, Creighton University School of Medicine; Recipient of the 2003 Federation of American Societies of Experimental Biology Minority Access to Research Careers (FASEB MARC) Summer Research Fellowship
- *Katherine Shivers* (Was a Senior Biology Major, Bennett College, North Carolina)  
**Award:** Recipient of the 2003 FASEB MARC Summer Research Fellowship
- *Ruth Williams* (Was a Freshman Biology Major, University of Nebraska)  
**Award:** Recipient of the 2003 FASEB MARC Summer Research Fellowship
- *Alia McConnell, B.S. Biology*, (University of Maryland Eastern Shore; was a Pharm.D. student, Creighton University)  
**Awards:** Recipient of the 2001 FASEB MARC Summer Research Fellowship; Recipient of the 2002 FASEB MARC Summer Research Fellowship; Recipient of the 2003 FASEB MARC Summer Research Fellowship
- *Mervine Opere* (was a senior at Central High School, Omaha, NE)  
**Award:** Recipient of N.I.H. Minority High School Research Supplement (2001; 2002)
- *Justin C. Rice, B.S. Biology*. (Was a medical student at University of Nebraska Medical Center, 2001
- *Angela LeDay, Pharm.D*, Xavier University, New Orleans. (Was a graduate student at the School of Pharmacy and Allied Health Professions, Creighton University).  
**Awards:** Recipient of Summer Minority Undergraduate Research Fellowship from Creighton University School of Medicine; Recipient of Society of Toxicology (SOT) Undergraduate Student Travel Award to present an abstract of her research to the 1995 SOT meeting; Recipient of the National Eye Institute Travel Fellowship to present an abstract of her research to the 1996 Association for Research in Vision and Ophthalmology meeting in Fort Lauderdale, Florida; Recipient of American Society for Pharmacology Graduate student Travel Awards to present abstract of her research to the 2001 Experimental Biology meeting, Orlando, Florida.
- *Mykayla Garrison* (Was a Senior Biology Major, Xavier University, Louisiana)  
**Award:** Recipient of the 2001 Summer Minority Undergraduate Research Fellowship, Creighton University School of Medicine
- *Matthias I. Okoye, Jr.* (Was a B.S. Mathematics major at Creighton University)  
**Award:** Recipient of N.I.H. Minority High School Research Supplement (1995, 1996)
- *Kara Seib, Pharm.D.* (2000) Creighton University, Omaha, Nebraska
- *Debbie Bradshaw, B.S., Biotechnology* (2000) University of Nebraska at Omaha
- *Ossie Carney, B.S. Biology/Pre-Medical*, Jackson State University, Mississippi.  
**Award:** Recipient of the 2000 Summer Minority Undergraduate Research Fellowship, Creighton University School of Medicine
- *Ikenna Okereke, B.S. Biophysics*, John Hopkins University; M.D. (1999), Washington University, St. Louis.
- *Leo Adams, B.S. Chemistry* (1999) Creighton University, Omaha, Nebraska.
- *Afam Uketui* (Was a medical student at the University of Missouri).  
**Award:** Recipient of H.I.H. Minority High School Research Supplement (1998, 1999).
- *Michael P. Imler, B.S. Pharmacy*; M.D. (1998), University of Gainesville, FL).

- Awards:** Recipient of the 1993 Fight for Sight Student Fellowship Award; Third Place Winner, Midwest Medical Student Research Forum poster competition, February 1995; Recipient of Creighton University School of Medicine Research Fellowship (June 1 – August 30, 1995)
- *Frances Anderson, B.S. Biology, M.D.* (1998) (Was a student at Illinois State University).  
**Award:** Recipient of 1993 Summer Minority Undergraduate Research Fellowship from Creighton University School of Medicine.
  - *Jennifer Graham, Pharm.D.*, Creighton University.  
**Awards:** Recipient of the 1996 Summer Minority Undergraduate Research Fellowship from Creighton University School of Medicine; Recipient of the 1997 Summer Minority Undergraduate Research Fellowship from Creighton University School of Medicine; Recipient of the National Eye Institute Travel Fellowship to present an abstract of her research to the 1998 Association for Research in Vision and Ophthalmology meeting in Fort Lauderdale, Florida.
  - *John Hayes, Pharm.D.* (Creighton University)  
**Award:** Recipient of the 1998 Summer Minority Undergraduate Research Fellowship from Creighton University, School of Medicine.
  - *Anna Kohmann, M.D.* (completed Medical degree from Mikolay Rey Lycee, Warsaw, Poland in 1997).  
**Award:** Recipient of American Heart Association Student Fellowship (1994).
  - *Beverly Matutte, B.S., Biology*, Mount Saint Mary's College, Los Angeles, California, (Was a Ph.D. student, Department of Biomedical Sciences, Creighton University, Omaha, Nebraska).  
**Award:** Recipient of the 1997 Summer Minority Undergraduate Research Fellowship from Creighton University School of Medicine
  - *Carolyn Fox, B.S. Biology*, University of Maryland Eastern Shore.  
**Award:** Recipient of the 1996 Summer Minority Undergraduate Research Fellowship from Creighton University School of Medicine.
  - *Suzanne R. Dye* (former Neligh High School student).  
**Award:** Recipient of American Heart Association Student Fellowship (1994).
  - *Corey Glass, B.S. Biology*, Prairie View A & M University, Texas.
  - *Adeleke Badejo* (Now final year M.D./Ph.D. student, Tulane University, New Orleans, LA.)
  - *Nwamaka Enenmoh* (Now Pharm.D. graduate, Creighton University).
  - *Patrick Chen* (B.S. Pharmacology, University of British Columbia)
  - *Nneoma Ndubuisi* (Now Pharm.D., graduate, Creighton University, Omaha, Nebraska).

**Other Research Students:**

Anita Okpobiri (Minority High School Student, Summer 2012)  
Jenaye Robinson (Minority Undergraduate Student, Summer 2012)  
Destinee Stroud (Minority Undergraduate Student, Summer 2011)  
Kiara Taylor (Minority Undergraduate Student, Summer 2010)  
Ike Okpobiri ( Minority Undergraduate Student, Summer, 2009; 2010, 2011)  
Ruth Williams (Minority High School Student, Summer, 2001; 2002)  
Olumide Savage (Minority High School Student, Summer, 1999)  
Christina Avant (Minority High School Student, Summer, 1995)  
Espersonsa R. Barfield (Minority High School Student, Summer, 1994)

### **Graduate Thesis External Examiner:**

- “Effects of a Sapogenin-rich Preparation from Jamaican Yam (*Dioscorea Sp.*) on Blood Cholesterol Levels in Rats,” Ph.D. thesis of the University of the West Indies, Kingston, Jamaica (January 2013).
- “Isolation And Chemical Characterization of An Anti-Histamine Compound From The Isolated Garden Slug (*Diplosolenodes Occidentalis*); Its Inhibitory Effects on Cutaneous Allergic Response And Histamine-Induced Tracheal Smooth Muscle Contraction,” Ph.D. thesis of the University of the West Indies, Kingston, Jamaica (January 2013)
- “Anti-Inflammatory Effect Of Some Novel Enaminones – Inhibition of LPS-Stimulated TNF $\alpha$  Release from Mouse Peritoneal Macrophages,” M.Sc. thesis of the College of Graduate Studies, Kuwait University, Kuwait. (February 2008).
- “A Pharmacological Study of Pimento Oil And Two of Its Constituents on Chronic Inflammation Induced By Freud’s Adjuvant In Rats,” Ph.D. thesis of the University of the West Indies, Kingston, Jamaica. (October 2007)
- “Comparison Between The Antipyretic Effects of Ketoprofen And Nimesulide In Rabbits,” M.Sc. thesis of the College of Graduate Studies, Kuwait University, Kuwait. (April, 1999).

### **RESEARCH ACTIVITIES**

#### **Research Interests:**

*Research interests in the pharmacology of receptors and signal transduction pathways for neurotransmitters in the mammalian eye. Studies are directed toward identifying and characterizing subtypes of prejunctional (autoreceptors and heteroreceptors) and postjunctional receptors in ocular tissues. Recent studies in my laboratory have focused on the pharmacological actions of hydrogen sulfide and other gaseous transmitters in the eye. The goal of this research is to identify potential target sites that might be of importance in the therapy of ocular diseases such as glaucoma, uveitis and retinal degenerations.*

### **RESEARCH SUPPORT AND PATENTS**

#### **RESEARCH SUPPORT:**

##### **National Institutes of Health (NIH):**

#### **Awarded:**

- |           |   |
|-----------|---|
| 2012-2015 | “Hydrogen Sulfide-Releasing Compounds and IOP Regulation.” <u>Agency:</u> NIH AREA Grant: Total Amount: \$418,665. Principal Investigator: Ya Fatou Njie-Mbye; Consultant: S. E. Ohia |
| 2003-2007 | “Effect of Isoprostanes on Retinal Transmitter Release.” <u>Agency:</u> NIH AREA Grant. Total Amount: \$215,000. Co-Investigator: S.E. Ohia. [Principal Investigator: C. Opere]       |

- 2001-2003 “Hydrogen Peroxide and Retinal Neurotransmitter Release.” Agency: NIH AREA Grant program. Total Amount: \$142,500. Principal Investigator: S.E. Ohia. [NIH Grant Number EY13266]
- 2001-2003 Minority Research Supplement to NIH AREA Grant. Beneficiary: Marvine Opere. Summer of 2001 and 2002. Total Amount: \$5,698. Principal Investigator: S.E. Ohia. [NIH Grant Number EY13266]
- 1998-2000 Minority Research Supplement to NIH AREA Grant. Beneficiary: Afam Uketui. Summer of 1998 and 1999. Total Amount: \$5,600. Principal Investigator: S.E. Ohia. [NIH Grant Number EY12157]
- 1998-2000 "Peroxides and Arachidonate Metabolism in Anterior Uvea." Agency: NIH AREA Grant award. Total Amount: \$98,340. Principal Investigator: S.E. Ohia. [NIH Grant Number EY12157]
- 1995-1998 "Oxidative Stress and Uveal Norepinephrine Release." Agency: NIH AREA Grant award. Dates: June 1, 1995 - May 31, 1998. Total Amount: \$93,000. Principal Investigator: S.E. Ohia. [NIH Grant Number EY11023]
- 1995-1998 Minority Research Supplement to NIH AREA Grant. Beneficiary: Matthias I. Okoye, Jr. Summer of 1995 and 1996. Total Amount: \$5,600. Principal Investigator: S.E. Ohia. [NIH Grant Number EY11023]

**Other Funded Projects:**

- 2016 “Pharmacological Studies Of Santen Compounds On Isolated Bovine Ciliary Muscles And Arteries, In Vitro.” Agency: Santen Incorporated, Emeryville, California. Total Amount: \$35,000. Dates: 1/1/16 – 12/31/17. Principal Investigator: S. E. Ohia
- 2015 “Effect of Suppressatite and some Constituents of its Formulation on Serotonin and Neuropeptide Y concentrations in the Rat Brain Cortex and Hypothalamus, in vitro.” Agency: *Cepharm Inc.*, Piscataway, New Jersey. Total Amount: \$25,000. Dates: 3/1/15 – 12/31/15. Principal Investigator: S.E. Ohia
- 2009 “Pharmacological Studies of Isolated Porcine Ciliary Muscles and Arteries in vitro.” Agency: *Alcon Research Limited*, Fort Worth, TX. Total Amount: \$65,000. Dates: 10/1/09 – 6/30/10. Principal Investigator: S.E. Ohia
- 2007 “Pharmacological Studies of Isolated Porcine Ciliary Muscles and Arteries in vitro.” Agency: *Alcon Research Limited*, Fort Worth, TX. Total Amount: \$50,000. Dates: 7/1/07 – 6/30/08. Principal Investigator: S.E. Ohia
- 2005 “Effect of Hydroxycitric Acid (Super Citrimax) on Neurotransmitters and Fat/Carbohydrate Metabolism in Obese Zucker Rats.” Agency: *InterHealth Nutraceuticals, Inc.*, Benicia, CA. Dates: 4/1/05-12/31/05 Total Amount: \$40,312.50. Principal Investigator: S.E. Ohia
- 2005 “Contractile Studies of the Response of Mammalian Irides to Drugs.” Agency: *Alcon Research*

- Limited*, Fort Worth, TX. Dates: 04/01/05-12/31/05 Total Amount: \$50,000. Principal Investigator: S.E. Ohia
- 2004 “Effect of Hydroxycitric Acid (Citrimax) on Hypothalamic Neuropeptide Y Release *in vitro*”  
Agency: *InterHealth Nutraceuticals, Inc.*, Benicia, CA. Dates: 7/1/04-12/31/04 Total Amount: \$12,707 Principal Investigator: S.E. Ohia
- 2003 “Contractile Studies of the Response of Mammalian Irides to Drugs.” Agency: *Alcon Research Limited*, Fort Worth, TX. Dates: 01/01/03 – 06/30/03 Total Amount: \$50,000. Principal Investigator: S.E. Ohia
- 2002 “Neurotransmitter Release Studies in Ocular Tissues”. Agency: *Alcon Research Limited*, Fort Worth, TX. Dates: 01/01/03 – 06/30/03 Total Amount: \$50,000. Principal Investigator: S.E. Ohia
- 2002 “Establishing a Toxicology Center.” Agency: *Health Future Foundation*, Omaha, NE. Dates: 7/1/02 – 6/30/06. Total Amount: \$949,499. Co-Principal Investigator: S.E. Ohia. [Principal Investigator: S. Stohs]
- 2002 “Effect of Hydroxycitric Acid (CitriMax) on Serotonin Levels in the Rat Brain Cortex *in vivo*”  
Agency: *InterHealth Nutraceuticals, Inc.*, Benicia, CA. Dates: 1/1/02 – 6/30/02. Total Amount: \$40,400. Principal Investigator: S. E. Ohia
- 2001 “Effect of Neuroprotectants on Retinal Glutamate Release.” Agency: *Alcon Research Limited*, Fort Worth, TX. Dates: 7/31/01 – 12/31/01. Total Amount: \$25,000. Principal Investigator: S.E. Ohia
- 2001 “Effect of Grape Seed Proanthocyanidine Extract (GPSE, Activin) on a Rat Model of Cataract Both *in vitro* and *in vivo*.” Agency: *InterHealth Nutraceuticals, Inc.*, Benicia, CA. Dates: 1/15/01 – 7/14/01. Total Amount: \$18,257. Principal Investigator: S.E. Ohia
- 2000 “Effect of Hydroxycitric Acid (CitriMax) on Presynaptic Serotonin Receptors *in vitro*.” Agency: *InterHealth Nutraceuticals, Inc.*, Benicia, CA. Dates: 5/1/00 – 11/30/00. Total Amount: \$6,000. Principal Investigator: S.E. Ohia
- 2000 “Further Studies of Serotonin and Glutamate Receptors in the Eye.” Agency: *Alcon Research Limited*, Fort Worth, TX. Dates: 3/1/00 – 12/31/00. Total Amount: \$45,000. Principal Investigator: S.E. Ohia
- 1999 “Pharmacological Studies of Serotonin and Glutamate Receptors in the Eye.” Agency: *Alcon Research Limited*, Fort Worth, TX. Dates: 4/12/99 - 12/31/99. Total Amount: \$44,000. Principal Investigator: S.E. Ohia.
- 1998 “Pharmacological Studies of Prejunctional Receptors That Regulate Neurotransmitter Release from Ocular Tissues *in vitro*.” Agency: *Alcon Research Limited*, Fort Worth, TX. Dates: 3/2/98 - 12/31/98. Total Amount: \$50,000. Principal Investigator: S.E. Ohia

- 1997 “Pharmacological Studies of Prejunctional Receptors That Regulate Neurotransmitter Release from Ocular Tissues *in vitro*.” Agency: *Alcon Research Limited*, Fort Worth, TX. Dates: 11/1/97 - 2/1/98. Total Amount: \$25,000. Principal Investigator: S.E. Ohia
- 1997 “Pharmaceutical Effects on Human Performance.” A textbook Grant from W.B. Saunders Publishing Company. Total Amount: \$9,000. Co-Editor: S.E. Ohia
- 1995 “ $\alpha_2$ -Adrenoceptors and the Regulation of Intraocular Pressure.” Agency: Sigma Xi Grant-in-Aid. Dates: 1/1/95 - 12/31/95. Total Amount: \$2,400. Principal Investigator: S.E. Ohia
- 1995 “Regulation of Uveal Norepinephrine Release by Hydrogen Peroxide.” Agency: Creighton University School of Medicine. Dates: 6/1/95 – 8/30/95. Total Amount: \$2,000. Principal Investigator: S.E. Ohia. Beneficiary: Michael Imler
- 1995 “Age-related Oxidative Damage and Role of Protein Kinase C and TNF- $\alpha$  in Fisher 344 Rats.” Agency: California Aging Institute Research Award. Dates: 1/1/95 – 12/31/95. Total Amount: \$2,000. Co-Investigator: S.E. Ohia
- 1994 “Regulation of Sympathetic Neurotransmission in the Iris by Hydrogen Peroxide.” Agency: *Health Future Foundation*, Omaha, NE. Dates: 7/1/94 - 6/30/95. Total Amount: \$10,000. Principal Investigator: S.E. Ohia
- 1994 American Heart Association Summer Research Fellowship. Dates: 6/1/94 - 8/30/94. Total Amount: \$1,500. Student beneficiary: Suzanne Dye
- 1994 American Heart Association Summer Research Fellowship. Dates: 7/1/94 - 9/30/94. Total Amount: \$1,500. Student beneficiary: Anna Kohmann.
- 1993 “Age-related Oxidative Damage in the Retina.” Agency: *American Association of Colleges of Pharmacy Grant Program for New Investigators*. Dates: 1/1/93 - 12/31/93. Total Amount: \$5,000. Principal Investigator: S.E. Ohia.
- 1993 “Presynaptic Serotonin Receptors in the Retina.” Agency: *Pharmaceutical Manufacturers Association Foundation* (competitive renewal). Dates: 1/1/93 - 12/31/93. Total Amount: \$10,000. Principal Investigator: S.E. Ohia
- 1993 “Screening of Adrenergic Agonists and Antagonists on Intraocular Pressure.” Agency: *Alcon Research Limited*, Fort Worth, TX. - Unrestricted grant. Dates: 5/1/93 - 4/30/94. Total Amount: \$50,000. Principal Investigator: S.E. Ohia
- 1993 “Screening of Muscarinic Agonists on Intraocular Pressure.” Agency: *Alcon Research Limited*, Fort Worth, TX. Dates: 7/1/93 - 1/31/94. Total Amount: \$28,000. Principal Investigator: S.E. Ohia
- 1993 “Synthesis and preliminary screening of bicyclic hexahydroaporphines.” Agency: *Alcon Research Limited*, Fort Worth, TX. Dates: 12/1/93 - 6/30/94. Total Amount: \$5,000. Principal Investigator: S.E. Ohia

- Fight for Sight Summer Research Fellowship. Dates: 6/1/93 - 8/30/93. Total Amount: \$1,500. Student beneficiary: Michael Imler
- 1993 “Age-related Oxidative Damage and Prevention in the Retina.” Agency: California Aging Institute Research Award. Dates: 10/1/93 - 9/30/94. Total Amount: \$2,500. Co-Investigator: S.E. Ohia
- 1992 “Presynaptic Serotonin Receptors in the Retina.” Agency: Pharmaceutical Manufacturers Association Foundation Research Starter Grant. Dates: 1/1/92 -12/31/92. Total Amount: \$10,000. Principal Investigator: S.E. Ohia
- 1991 “Opioids and the Regulation of Sympathetic Neurotransmission in the Iris.” Agency: Health Future Foundation, Omaha, NE. Dates: 11/1/91 - 10/31/92. Total Amount: \$9,964. Principal Investigator: S.E. Ohia

### **INSTITUTIONAL SUPPORT**

- 2011-2013 “Establishment of the Urban Academic Village.” Funding was received from a foundation to establish a residential learning community to increase the retention and graduation rates of students. Agency: Houston Endowment Inc., Houston. Total Amount Awarded: \$2.64 million. *Principal Investigator: S. E. Ohia*

### **PATENTS:**

#### **Applications Filed:**

#### **United States Applications:**

“Methods for Increasing Neurotransmitter Levels using Hydroxycitric Acid.” U.S. Patent No. 20050215644, filed May 16, 2005. Co-inventor: Debasis Bagchi, Ph.D.

“Methods and Composition for Treating and/or Preventing Neurodegenerative Conditions.” Co-inventor: Victoria F. Roche, Ph.D.

“Method and Composition for Increasing Neurotransmitter Levels using Hydroxycitric Acid.” U.S. Serial No. 119/120/365, filed March 16, 2005. Co-inventor: Debasis Bagchi, Ph.D.

“Method for Increasing Serotonin Levels in a person by Administration of a Composition Incorporating (-)Hydroxycitric Acid, and Related Compositions thereof.” U.S. Patent No. 20040157929, filed April 06, 2004. Co-inventor: Debasis Bagchi, Ph.D.

“Compositions Incorporating (-)-Hydroxycitric Acid, Chromium, and Gymnemic Acid, and related Methods for Promoting Healthy Body Weight and Improving Related Health Factors.” U.S. Serial No. 119/120/365, Filed August 3, 2004. Co-inventor: Debasis Bagchi, Ph.D.

#### **World Applications:**

“(WO 2006/119258) Use of Hydrogen Sulfide in the Treatment of Eye Diseases.” Co-inventors: Catherine A.

Opere, Ph.D., Guilin Zhan, MD, Emmanuel Monjok, MD, Kaustubh Kulkarni, M.S., Ghislaine Kouamou, B.S. (World Intellectual Property Organization, International Application #PCT/US2006/016751, September 11, 2006).

“(WO 2005/089441) Methods for Increasing Neurotransmitter Levels Using Hydroxycitric Acid.” Co-inventor: Debasis Bagchi, Ph.D. (World Intellectual Property Organization, International Application #PCT/US2005/008942, September 29, 2005).

“(WO 2002/078616) Methods for Increasing Serotonin Levels by Administering (-)-Hydroxycitric Acid.” Co-inventors: Harry G. Preuss, Ph.D., Debasis Bagchi, Ph.D. (World Intellectual Property Organization, International Application #PCT/US2002/010368, October 10, 2002).

“(CA 2463427) Compositions incorporating (-)-Hydroxycitric acid, Chromium and Gymnemic acid and Related Methods for Promoting Healthy Body Weight and Improving Health Factors.” Co-inventors: Harry G. Preuss, Ph.D. and Debasis Bagchi, Ph.D. (Canadian Intellectual Property Office, Canadian Patents Database filed on November 27, 2007).

#### **Patents Awarded:**

*“Use of Hydrogen Sulfide in the Treatment of Eye Diseases.”* Co-inventors: Catherine Opere, Ph.D., Guilin Zhan, M.D., Emmanuel Monjok, M.D., M.P.H., Kaustubh Kulkarni, Ph.D. and Ghislaine Kouamou, B. Pharm. **(U.S. Patent #8,092,838, January, 10, 2012).**

*“Compositions Incorporating (-)-Hydroxycitric Acid And Related Methods For Promoting Fat Oxidation.”* Co-inventor: Debasis Bagchi, Ph.D. **(U.S. Patent #7,335,651, February 26, 2008).**

*“Compositions incorporating (-)-hydroxycitric acid, chromium, and gymnemic acid, and related methods for promoting healthy body weight and improving related health factors.”* Co-inventors: D. Bagchi and H.G. Preuss. **(Australian Patent # AU 2002364213 B2, July 12, 2007).**

*“Compositions incorporating (-)-hydroxycitric acid, chromium, and gymnemic acid, and related methods for promoting healthy body weight and improving related health factors.”* Co-inventors: D. Bagchi and H.G. Preuss. **(New Zealand Patent # 532550, January 12, 2006).**

*“Use of Hydrogen Sulfide in the Treatment of Eye Diseases.”* Co-inventors: Catherine Opere, Ph.D., Guilin Zhan, M.D., Emmanuel Monjok, M.D., M.P.H., Kaustubh Kulkarni, Ph.D. and Ghislaine Kouamou, B. Pharm. **(World Patent #2,006,119,258, November, 10, 2006).**

*“Method for increasing serotonin levels in a person by administration of a composition incorporating (-)-hydroxycitric acid, and related compositions thereof.”* Co-inventors: H.G. Preuss and D. Bagchi. **(Republic of South Africa Patent # 2003/7594, May 25, 2005).**

*“Method for increasing serotonin levels in a person by administration of a composition incorporating (-)-hydroxycitric acid, and related compositions thereof.”* Co-inventors: H.G. Preuss and D. Bagchi. **(New Zealand Patent # 528681, Date of Patent: April 1, 2002).**

"Bicyclic Hexahydroaporphine And 1-Benzyl octahydroisoquinoline Therapeutic Compositions And Processes For Utilizing Said Composition". Co-inventors: Victoria F. Roche, Ph.D., Edward B. Roche, Ph.D. (U.S. Patent #5,512,577, April 30, 1996)

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3. **Ohia, S.E.** and Boyle, F.C.: Involvement of Prostaglandins in the Inhibitory Response of Adrenoceptor Agonists in the Rat Isolated Uterus. *General Pharmacology*, 19: 807-813, 1988.
4. **Ohia, S.E.** and Boyle, F.C.: Role of Cyclic AMP in Rat Uterine Inhibitory Response to Salbutamol During the Natural Oestrous Cycle. *Archives Internationales de Pharmacodynamie et de Therapie*, 293: 245-256, 1988.
5. **Ohia, S.E.**, Cheung, Y.D., Bieger, D. and Triggle, C.R.: Role of Calcium Channels in the Rat Oesophageal Tunica Muscularis Mucosae. *Annals of the New York Academy of Sciences*, 522: 301-303, 1988.
6. Akbarali, H.I., Bieger, D., **Ohia, S.E.** and Triggle, C.R.: Similarity of Relaxations Evoked by BRL 34915, Pinacidil and Field Stimulation in Rat Oesophageal Tunica Muscularis Mucosae. *British Journal of Pharmacology*, 95: 519-525, 1988.
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8. **Ohia, S.E.** and Jumblatt, J.E.: Inhibitory Effects of Neuropeptide Y on Sympathetic Neurotransmission in the Rabbit Iris-Ciliary Body. *Neurochemical Research*, 15: 251-256, 1990.
9. **Ohia, S.E.** and Jumblatt, J.E.: Prejunctional Inhibitory Effects of Prostanoids on Sympathetic Neurotransmission in the Rabbit Iris-Ciliary Body. *Journal of Pharmacology and Experimental Therapeutics*, 255: 11-16, 1990.
10. **Ohia, S.E.** and Jumblatt, J.E.: Prejunctional Prostaglandin Receptors in the Human Iris-Ciliary Body. *Current Eye Research*, 10: 967-976, 1991.
11. Al-zadjali, K.H., Boyle, F.C. and **Ohia, S.E.**: Inhibition of Prostaglandin Synthetase Alters Uterine Response to Adrenoceptor Agonists in Pregnant and Post Partum Rats. *General Pharmacology*, 22: 855-861, 1991.
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16. **Ohia, S.E.**, Bagchi, M. and Stohs, S.J.: Age-Related Oxidative Damage in Long-Evans Rat Retina. *Research Communications in Molecular Pathology and Pharmacology* 85: 21-31, 1994.
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53. **Ohia, S.E.**, Opere, C.A. and LeDay, A.M.: Pharmacological Consequences of Oxidative Stress in Ocular Tissues. *Mutation Research* 579:22-36, 2005.
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155. Opere C. A., Flowers A., Floyd N., Kegey E., Jamil J. M Durand T., Galano J.M., Guy A., Njie-Mbye Y., **Ohia S. E.** Role of Prostanoid Receptors in the Excitatory Effect of Neuroprostanes on Potassium Induced [<sup>3</sup>H]D-Aspartate Release in Isolated Bovine Retina. *Investigative Ophthalmology and Visual Sciences* 53: E-Abstract 5386, 2012.
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157. Flowers A., Floyd N., Kegey E., Jamil J. M Durand T., Galano J.M., Guy A., Kulkarni M., Njie-Mbye Y., **Ohia S. E.**, Opere C. A. Regulation of K<sup>+</sup>-induced [<sup>3</sup>H]D-Aspartate Release by Synthetic Neuroprostanes in Isolated Bovine Retina. *FASEB Journal*. 26: E-Abstract 843, 2012.
158. **Ohia S. E.**, Okpobiri A., Njie-Mbye Y., Robinson J., Chitnis M., Opere C.A.: Pharmacological Actions of L-cysteine on Isolated Bovine Ciliary Muscles. *IOVS*. 54:787, 2013.
159. Slavi A., Brankhele P., Jamil J. M., Njie-Mbye Y., Kulkarni M., **Ohia S. E.**, Opere C. A.: Regulation of Mammalian Sympathetic Neurotransmitter Release and Intraocular Pressure by Hydrogen Sulfide Donor, GYY 4137. *IOVS*. 54:1976, 2013.
160. Brankhele P., Jamil J. M., Slavi A., Njie-Mbye Y., Kulkarni M., **Ohia S. E.**, Opere C. A.: Further Studies on the Inhibition of [3H]D-Aspartate Release by Hydrogen Sulfide Donors in Isolated Bovine Retina. *IOVS* 54:6325, 2013.
161. Jamil J. M., Brankhele P., Slavi A., Durand T., Galano J.M., Guy A., Njie-Mbye Y., **Ohia S. E.** Opere C. A.: Further Studies On The Role Of Arachidonic Acid Metabolites In The Regulation Of Potassium-Induced [3H]D-Aspartate Release From Isolated Bovine Retinae By 5-epi-5-F3t-Isoprostane. *IOVS* 54:6315, 2013.
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- Increases Aqueous Humor Outflow in Porcine Trabecular Meshwork. *FASEB Journal* 27:1178.1, 2013.
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  166. Opere C. A., Brankhele P., Slavi A., Jamil J. M., Munt D., Njie-Mbye Y., Chitnis M., **Ohia S. E.** Comparative pharmacological actions of N-acetylcysteine and L-cysteine on excitatory neurotransmission in bovine isolated retina. *FASEB Journal* 28:1060.4, 2014.
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  169. **Ohia, S.E.**, Kulkarni-Chitnis, M., Njie-Mbye, M., Robinson, J, Mitchell, L., Opere, C.A. and Whiteman, M. Effect of novel hydrogen sulfide donors (AP 67 and AP 72) on isolated bovine ciliary artery. *IOVS* 55: 4348, 2014.
  170. Opere, C.A., Bankhele, P.S., Salvi, A.A., Jamil, J., Munt, D., Njie-Mbye, Y., Chitnis, M. and **Ohia, S.E.** Comparative inhibition of excitatory neurotransmission by N-acetylcysteine and L-cysteine in bovine isolated retina. *IOVS* 55: 1886, 2014.
  171. Sharif, N., Kulkarni-Chitnis, M., Njie-Mbye, Y. and **Ohia, S.E.** Pharmacological evidence for serotonin-2B receptor-mediated bovine ciliary muscle contraction. *IOVS* 55: 3024, 2014.
  172. Njie-Mbye Y., Agwu, N., Nguyen O., Robinson J., Mitchell, L., Opere C. A. and **Ohia S. E.**: Hydrogen sulfide regulates prostaglandin production in isolated bovine iris and retina. *Investigative Ophthalmology and Visual Sciences* 56:4400, 2015.
  173. Robinson J., Okoro E., Mitchell, L., Opere C. A., **Ohia S. E.** and Njie-Mbye Y.: Effect of sodium hydrosulfide on aqueous humor outflow: Role of prostanoids and cyclic AMP. *Investigative Ophthalmology and Visual Sciences*. 56:4408, 2015.

174. Mitchell, L., Fasiku O., Robinson J., Opere C. A., **Ohia S. E.** and Njie-Mbye Y.: Regulation of glutamate-induced excitotoxicity in bovine neural retina by L-cysteine and anandamide. *Investigative Ophthalmology and Visual Sciences*. 56:4399, 2015.
175. Opere C. A., Jamil J. M., Galano J.M., Ullah, F., Kwong, H.Y., Guy A., Durand T., Mitchell L., Njie-Mbye, Y. and **Ohia, S.E.**: Regulation of K<sup>+</sup>-induced [<sup>3</sup>H]D-aspartate release by the non-enzymatic, DHA-derived metabolite, 4(S)-F 4t-neuroprostane in bovine retina, *in vitro*. *Investigative Ophthalmology and Visual Sciences*. 56:4401, 2015.
176. Nguyen O., Robinson J., Mitchell L., Opere C. A., **Ohia, S.E.** and Njie-Mbye, Y.: Involvement of prostaglandins in the pharmacological actions of L-cysteine in ocular tissues. *FASEB J*. 29:1024.2, 2015.
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178. Mitchell, L., Fasiku, O., Robinson, J., Opere, C. A., **Ohia S. E.** and Njie-Mbye, Y.: Effect of L-cysteine on glutamate-induced excitotoxicity in bovine neural retina. *FASEB J*. 29:1024.4, 2015.
179. **Ohia, S.E.**, Ajelabi, E., Anyikwa, C., Ly, C., Chua, C., Chua, C., Nguyen, O., Robinson, J., Bush, L., Opere, C.A. and Njie-Mbye, Y.F.: Involvement of prostaglandins and acetylcholine in the contractile actions of hydrogen-sulfide releasing compounds in bovine isolated irides. *Proceedings of the 4<sup>th</sup> International Conference on the Biology of Hydrogen Sulfide, Naples, Italy, June 3-5, pp. 180, 2016.*
180. **Ohia, S.E.**, Bush, L., Robinson, J., Njie-Mbye, Y.F. and Bagchi, D.: Inhibitory effects of green coffee bean extract on serotonin uptake in the rat brain cortex. *FASEB J*. 30: 1b508, 2016.
181. Ajelabi, E., Anyikwa, C., Ly, C., Chua, C., Chua, C., Robinson, J., Mitchell, L., Opere, C., Njie-Mbye, Y.F. and **Ohia, S.E.**: Contractile actions of hydrogen sulfide donors on the bovine isolated iris: Role of prostaglandins. *FASEB J*. 30: 1271.2, 2016.
182. Mitchell-Bush, L., Robinson, J., Opere, C., **Ohia, S.** and Njie-Mbye, Y.F.: Neuroprotective actions of L-cysteine and meth-anandamide in the bovine isolated retina. *FASEB J*. 30: 1271.4, 2016.
183. Robinson, J., Mitchell, L., Nguyen, O., Opere, C., **Ohia, S.E.** and Njie-Mbye, Y.F.: Changes in hydrogen sulfide concentrations in porcine ocular anterior segment explants under elevated pressures: Role of prostaglandins. *FASEB J*. 30: 1271.5, 2016.
184. Robinson J., Ngele K., Whiteman M., Opere CA., Njie-Mbye YF, **Ohia SE.** Inhibitory Action of Mitochondrial-Targeting Hydrogen Sulfide Releasing Compounds on Porcine Isolated Irides. *Investigative. Ophthalmology and Visual Sciences* 58(8):1073 2017.

185. Robinson J., Mitchell L., Ngele K., Opere CA., **Ohia SE**, Njie-Mbye YF. Effect of Hydrogen Sulfide-Releasing Compounds on Aqueous Humor Outflow Facility Under Different Perfusion Pressures. *FASEB Journal* 31: 1b606, 2017.
186. Mitchell L., Robinson J., Ngele K., Opere CA., **Ohia SE**, Njie-Mbye YF. Regulation of Cannabinoid-mediated Neuroprotection by Hydrogen Sulfide in Bovine Isolated Retina. *FASEB Journal* 31: 1b602, 2017.
187. **Ohia SE**, Robinson J., Bush L., Opere CA., Njie-Mbye YF. Effect of Hydrogen Sulfide Releasing Compounds on Aqueous Humor Outflow Facility Under Normal and Elevated Ocular Perfusion Pressure. *Investigative Ophthalmology and Visual Science* 59: 4706, 2018.
188. Robinson J, Bush L., Whiteman M., Opere CA., **Ohia SE**, Njie-Mbye YF. Relaxation of Porcine Isolated Irides by Novel Hydrogen Sulfide Releasing Compounds. *FASEB J* April 2018.
189. **Ohia SE**, Bush L, Robinson J, Opere CA, Njie-Mbye YF: A Neuroprotective Action of Cannabinoids in the Bovine Isolated Retina: Role of Hydrogen Sulfide. Abstract presented to 8<sup>th</sup> *World Congress of Basic and Clinical Pharmacology*, Kyoto, Japan, July 3, 2018.

#### **NON-REFERRED ARTICLES:**

- **Ohia, S.E.**, Galt, K., O'Brien, R.L. and Wilson, M.R.: Establishment of the Creighton University Health Sciences Office of Interprofessional Education. *Report of the Association of Academic Health Centers*, 2002.
- **Ohia, S.E.**: ASPET Committee on Minorities-New Initiatives. *The Pharmacologist*, 43:125-127, 2001.

#### **INVITED LECTURES (Selected):**

- "Hydrogen Sulfide-Releasing Compounds: Potential Role in the Therapy of Glaucoma." Presented to scientists at Camargo Pharmaceutical Services, Inc., Cincinnati, Ohio, June 8, 2018.
- "Physiological and Pharmacological Roles of Hydrogen Sulfide in the Eye." Presented to faculty and students of the Instituto Teofilo Hernando at the Universidad Autonoma de Madrid, Madrid, Spain, October 22, 2015.
- "Hydrogen Sulfide: Physiological and Pharmacological Role in Ocular Tissues." Presented at the Mini-Symposium on the Role of Gasotransmitters in Ocular Health and Disease, Association for Research in Vision and Ophthalmology Conference, Denver, CO, May 6, 2015.
- "The Provost and the Deans: A Critical Relationship." Presented to the Becoming a Provost Academy (BAPA) Class of 2012-2013, American Association of State Colleges and Universities Winter Meeting, February 7-9, 2013.

- "IOP Modulation & Retinoprotection with Hydrogen Sulfide and Carbon Monoxide." Presented to ISER XIX Biennial Meeting, Montreal, Canada, July, 2010.
- "Hydrogen Sulfide: A Gas with Pharmacological Actions in the Eye." Presented to faculty, postdoctoral fellows and graduate students of the Faculty of Science, University of Lagos, Nigeria, May 2008.
- Symposium Organizer: EB 2008 "FASEB MARC Genomics Symposium Series: Genomics Symposium on Obesity: Genetic and Therapeutic Implications." Presented to EB 2008 Genomics Symposium, April 2008.
- "FASEB MARC Genomics Symposium Series: A Historical Perspective." Presented to EB 2008 Genomics Symposium on Obesity, April 7, 2008.
- "Pharmacological Actions of Hydrogen Sulfide in Ocular Tissues." Presented to faculty, postdoctoral fellows and graduate students of the Faculty of Basic Medical Sciences, University of the West Indies, Kingston, Jamaica, October, 2007.
- "United States Entry-level, Four-year Doctor of Pharmacy Degree Program: The University of Houston Perspective." Presented to the Inaugural Conference of the Nigerian Association of Pharmacists and Pharmaceutical Scientists in the Americas, Houston, TX, September 2007.
- Symposium Chair: EB2007 "FASEB MARC Genomics Symposium Series: Health Disparities in HIV/AIDS: Genetic and Therapeutic Implications" Presented to the EB2007 Genomics Symposium, April 28, 2007.
- "Role of Neurotransmitters in Obesity Regulation." Presented to Laila Impex Research and Development, Vijayawada, India, March 7, 2007.
- Provost, College of Medicine, University of Ibadan Invitational Lecture: "Recent Trends in the Pharmacotherapy of Glaucoma: Role of Neuroprotectants." Presented to faculty, residents, postdoctoral fellows and medical students of the College of Medicine, Ibadan, Nigeria, September 11, 2006.
- "Oxidative Stress: Role in Uveitis and Other Ocular Diseases". Presented to the International Symposium on Inflammation: An Underlying Factor in Several Diseases, Ibadan, Nigeria, September 11-13, 2006.
- Symposium Chair: EB2006 "FASEB MARC Genomics Symposium Series: A Historical Perspective" Presented to the EB2006 Genomics Symposium, April 1, 2006.
- Dean, College of Medicine, Sultan Qaboos University Invitational Lecture: "Neurotransmitter release from ocular tissues: Relevance to glaucoma and retinal degenerative diseases." Presented to faculty, post docs and graduate students of the College of Medicine, Sultanate of Oman, October 22, 2005.

- Symposium Chair: “Health Disparities in Cardiovascular Disease: Genetic and Therapeutic Applications.” Sponsored by EB 2005 Genomics Symposium, April 4, 2005.
- “Pharmacists in the Healthcare Delivery Team: Past, Present and Future.” Presented to the Akwa Ibom State Association USA, Washington, DC, August 7, 2004.
- Symposium Chair: “Oxidative Stress and Neurotransmitter Release from the Eye.” 5<sup>th</sup> International Conference of the Society for Free Radical Research-Africa, SFRR-Africa, St. Lucia, July 21- 24, 2004.
- “Oxidative Stress and Neurotransmitter Release: Relevance to Glaucoma and Retinal Degenerative Diseases.” Presented to the faculty and students of the Department of Pharmacology, University of the West Indies, Kingston, Jamaica, July 19, 2004.
- “Regulation Glutamate and Glycine Concentrations in the Retina and Vitreous Humor by Hydrogen Peroxide.” Presented to the Annual Gifford Jr. /Truhlsen Lecture in conjunction with Ophthalmology Residents/Alumni Day, University of Nebraska Medical Center, June, 2004.
- Session Chair: “Receptors/Second Messengers.” Sponsored by The Association for Research in Vision and Ophthalmology, 2003 Annual Meeting, Fort Lauderdale, FL, April 26, 2004.
- Symposium Chair: “Health Disparities in Diabetes: Genetic and Therapeutic Applications.” Sponsored by FASEB MARC Program, Experimental Biology Meeting, April 19, 2004.
- “A Career in Academia.” Presented to the ASPET Symposium, Careers in Science: The Specifics of How to Get Where you want to be, Experimental Biology Meeting, April 8, 2004.
- Session Chair: “Receptors/Second Messengers.” Sponsored by The Association for Research in Vision and Ophthalmology, 2003 Annual Meeting, Fort Lauderdale, FL, May 6, 2003.
- Symposium Chair: “Cell-fate: Signaling from Proliferation to Apoptosis – Minisymposium.” Sponsored by The Association for Research in vision and Ophthalmology, 2003 Annual Meeting, Fort Lauderdale, FL, May 5, 2003.
- “Pharmacogenetics: Ethno-specific Pharmacology.” Presented to physicians, PA’s and advanced practice nurses at the Cultural and complementary Medicine Symposium sponsored by Methodist Hospital, Omaha, Nebraska, May 17, 2003.
- “Arachidonic acid metabolites and intraocular pressure: New vistas.” Presented to physicians/faculty of Lambo Eye Institute and members of Ophthalmologic Society of Nigeria, Lagos, Nigeria, June 5, 2002.
- Co-Chair of Workshop: “Occupational Therapy and Pharmacy: A Valuable Partnership in Managing Care.” Sponsored by The American Occupational Therapy Association, 82<sup>nd</sup> Annual Conference and Expo, Miami Beach, FL, May 4, 2002.
- “Ethnic differences in response to drugs: An update.” Presented to faculty and students of the Center for Human Diversity, University of Nebraska Medical Center, April 25, 2002.

- “Pharmacology of histamine receptors in mammalian anterior uvea.” Presented to the Annual Gifford Jr. /Truhlsen Lecture in conjunction with Ophthalmology Residents/Alumni Day, University of Nebraska Medical Center, April 26, 2002.
- “Pharmacology of neurotransmitter receptors in the eye,” Presented to the Association of African Biomedical Scientists meeting during Experimental Biology 2002, New Orleans, April 22, 2002.
- Co-Chair of Symposium: “Genomics: A Unified Approach to Solving Diverse Problems in Health and Disease.” Sponsored by the FASEB MARC Program in association with EB 2002 Minority Affairs Committee Chairs, April 22, 2002.
- Co-Chair of Workshop: “How to prepare for a career in science.” Sponsored by the Committee on Minority Affairs, American Society for Pharmacology and Therapeutics meeting during Experimental Biology 2002, New Orleans, April 22, 2002.
- “A journey towards excellence in research and academia,” Presented at a special session of American Society for Pharmacology and Therapeutics meeting during Experimental Biology 2002, New Orleans, April 22, 2002.
- “Pharmacology of Ocular Neurotransmitter Release: Relevance to Glaucoma.” Presented to faculty and students of the Department of Pharmacology, University of Nebraska Medical Center, Omaha, NE September 14, 2001.
- “Pharmacological/Toxicological Studies of Neurotransmitter Release: Relevance to Some Eye Diseases.” Presented to faculty, residents and medical students of the Department of Experimental Ophthalmology, University of Bonn, Bonn, Germany, June 6, 2001.
- “[<sup>3</sup>H]D-Aspartate Release from Mammalian Retina: Relevance to Neuroprotection and Glaucoma.” Presented to the Ninth Annual Gifford Day/Residents and Alumni Day, Department of Ophthalmology, University of Nebraska Medical Center, Omaha, NE May 11, 2001.
- Co-Chair of Podium Session titled “Pharmacology: Basic Science.” 2001 Association for Research in Vision and Ophthalmology Meeting, Orlando, Florida, April 29 – May 4, 2001.
- Organizer and Chair of Minisymposium titled: “Bioinformatics in Pharmacology” and “Show me the Money.” Sponsored by ASPET Committee on Minority Affairs, April 2, 2001.
- “Pharmacological Studies of Neurotransmitter Release from Ocular Tissues.” Presented to faculty and students of the Center for Cardiovascular Diseases, College of Pharmacy and Health Sciences, Texas Southern University, Houston, Texas, March 16, 2001.
- “Ethnic Difference in Response to Drugs.” Presented to faculty and students of the Center for Human Diversity, University of Nebraska Medical Center, Omaha, Nebraska, August 16, 2000.
- “Recent Trends in the Pharmacotherapy of Glaucoma: Role of Neuroprotectants.” Presented to physicians and faculty of the Lambo Eye Institute, Lagos, Nigeria, June 14, 2000.

- Organizer and Chair, Minisymposium titled “Career Opportunities for Minorities in Academia and Industry.” Sponsored by ASPET Committee on Minority Affairs, June 7, 2000 (*The Pharmacologist*, 42:13).
- “Prejunctional Excitatory 5-HT Receptors in Mammalian Anterior Uvea: Role in the Regulation of Intraocular Pressure.” Presented to the Eighth Annual Gifford Day/Residents and Alumni Day, Department of Ophthalmology, University of Nebraska Medical Center, April 7, 2000.
- “Drugs Acting on the Respiratory System.” Presented to graduate students in nursing, Prairie View A & M University, Houston, Texas, October 19, 1999.
- “Pharmacotherapy of Glaucoma: Role of Neurotransmitters and Modulators.” Presented to faculty and students of Prairie View A & M University College of Nursing, Houston, Texas, October 18, 1999.
- “Role of Arachidonic Acid Metabolites in Peroxide-Induced Potentiation of Sympathetic Neurotransmission in the Anterior Uvea.” Presented to the Seventh Annual Gifford Day/Residents and Alumni Day, Department of Ophthalmology, University of Nebraska Medical Center, April 9, 1999.
- “Oxidative Stress and Neurotransmission in the Anterior Uvea: Role of Arachidonic Acid Metabolites.” Presented to faculty and students of the University of Memphis Department of Physiology and Biophysics, Memphis, Tennessee, April 1, 1999.
- “Pharmacology of Neurotransmitter Release from the Anterior Uvea and Retina: Role in Aqueous Humor Dynamics and Neuroprotection.” Presented to Alcon Laboratories, Fort Worth, Texas, March 12, 1999.
- “Pharmacological/Toxicological Role of Peroxides in the Eye.” Presented to faculty and students of Department of Pharmacology and Toxicology, University of Kansas, Lawrence, Kansas, March 5, 1999.
- “Oxidative Stress and Neurotransmission in the Eye: Role of Arachidonic Acid Metabolites.” Presented to faculty and students of Xavier University of Louisiana, New Orleans, Feb. 18, 1999.
- “Intraocular Pressure Lowering Activity of Bicyclic Analogs of Hexahydroaporphine.” Presented to the Annual Meeting of the Chinese Glaucoma Society, Xia Men, China, October 21, 1998.
- “Pharmacological/Toxicological Role of Hydrogen Peroxide in the Anterior Uvea.” Presented to the Sixth Annual Gifford Residents/Alumni Day, Department of Ophthalmology, University of Nebraska Medical Center, April 3, 1998.
- “Lecture on Africa: Family, Education, Religion, Economics and Politics.” Presented to a class on Human Relations in a Multicultural Society, University of Nebraska at Omaha, March 4, 1998.
- “Mentoring: A Personal Perspective.” Presented to a symposium organized by Women and Minority Issues Committee, Association for Research in Vision and Ophthalmology, May 11, 1997.
- “Regulation of Uveal Sympathetic Neurotransmission by Peroxides.” Presented to faculty and students of Kentucky Lions Eye Research Institute, Department of Ophthalmology and Visual Sciences,

University of Louisville, March 5, 1997.

- "Presynaptic Effect of Prostanoids on Ocular Tissues." Presented to the 9th International Symposium on the Ocular Effects of Prostaglandins and Other Eicosanoids, Ft. Lauderdale, Florida, May 12-13, 1995.
- Co-Chair of Symposium, "Pharmacology and Molecular Biology of Receptors." Presented to XI International Congress of Eye Research, New Delhi, India, November 14, 1994.
- "Effect of Ethanol on Pre- and Postjunctional Pharmacological Receptors in Mammalian Iris-ciliary Body." Presented to Veterans Administration Medical Center Research Conference, Omaha, October 20, 1994.
- "Pre- and Postjunctional Prostaglandin Receptors in the Neural Retina." Presented to the Departments of Pharmacology and Biomedical Sciences, Creighton University School of Medicine, November 2, 1993.
- "Pharmacological Receptors and Ophthalmic Drug Evaluation." Presented to Alcon Laboratories, Inc., Fort Worth, Texas, September 24, 1993.
- "Prejunctional Prostanoid Receptors in the Retina." Presented to the International Symposium on Ocular Effects of Prostaglandins and Other Eicosanoids, Sarasota, Florida, May 1993.
- "Receptors for Prostaglandins in the Human Iris-Ciliary Body." Presented to Insite Vision Inc., Alameda, California, April 2, 1993.
- "Prejunctional Prostaglandin Receptors Mediating Inhibition of Norepinephrine Release from Mammalian Iris-ciliary Body." Presented to Department of Ophthalmology, University of Nebraska Medical Center, Omaha, Nebraska, November 16, 1992.
- "Studies of Inhibitory Receptors for Serotonin and Prostaglandins in Non-ocular and Ocular Tissues." Presented to the Department of Pharmacology and Toxicology, University of Louisville School of Medicine, Louisville, Kentucky, February 21, 1991.
- "Signal Transduction Pathways for Prejunctional Angiotensin II Receptors in the Iris-Ciliary Body." Presented to Kentucky Lions Eye Research Institute, University of Louisville School of Medicine, February 1991.
- "Effect of Prostanoids on Sympathetic Neurotransmission in the Rabbit Iris-Ciliary Body." Presented to Kentucky Lions Eye Research Institute, March 1990.
- "Effect of Neuropeptide Y on Norepinephrine Release in the Rabbit Iris-Ciliary Body." Presented to Kentucky Lions Eye Research Institute, March 1989.
- "Pharmacological Evidence for Adrenoceptor Mediated Prostaglandin Production in a Non-ocular Tissue: Implications for Ocular Research." Presented to Kentucky Lions Eye Research Institute, December 1988.

- "The Role of Serotonin Receptor Antagonists in Gastroesophageal Disorders." Presented to Syntex Research Group, Palo Alto, California, June 13, 1988.

### **OTHER PRODUCTS OF SCHOLARLY ACTIVITY:**

#### **Editorial Advisor:**

Ohia, S.E.: Nurse's Drug Looseleaf. Nancy Priff, editor. Blanchard and Loeb Publishers, LLC., New York, 2001.

#### **Book Reviewed:**

Title: Opioids II: Handbook of Experimental Pharmacology, edited by A. Herz, Igbo, I. and Ohia, S.E.: In: *Research Communications in Alcohol and Substances of Abuse*, 16 (3): 158, 1995.

#### **Editorial Board Member:**

*Journal of Pharmacological and Toxicological Methods*

#### **Guest Editorial Board Member:**

*Investigative Ophthalmology and Visual Sciences*

*Journal of Ocular Pharmacology and Therapeutics*

### **Manuscripts Reviewed for the following Journals:**

- *Antioxidants and Redox Signaling*
- *Canadian Journal of Physiology and Pharmacology*
- *Current Eye Research*
- *Experimental Eye Research*
- *Investigative Ophthalmology and Visual Science*
- *Journal of Cardiology*
- *Journal of Ethnopharmacology*
- *Journal of Pharmacology and Experimental Therapeutics*
- *Life Sciences*
- *Journal of Pharmacy and Pharmacology*
- *Journal of Ocular Pharmacology and Therapeutics.*

### **Grants Reviewed For:**

- Health Future Foundation, Omaha, NE (Faculty Development Awards)
- The Foundation of Jewish Hospitals, Louisville, KY (Research Grants Program)
- Department of Veteran Affairs, Livermore, CA (Merit Review Grants)
- American Heart Association (Nebraska Affiliate)
- American Association of Colleges of Pharmacy New Investigators Program.

**PROFESSIONAL AND COMMUNITY SERVICE ACTIVITIES**

***TEXAS SOUTHERN UNIVERSITY, TEXAS***

2014-present:

Chair: Graduate Program Curriculum Committee

Member: College Committee on Interprofessional Education  
College Committee on By-Laws

**National:**

Board of Trustees: The Association of African Biomedical Scientists; Nigerian Association of Pharmacists and Pharmaceutical Scientists in the Americas (NAPPSA) Board Member, 2006 – present; Vice President, NAPPSA (2006-2012); Nigerian-American Multicultural Center (2012 – present); FASEB MARC Programs Advisory Board (2000 – present)

**Community:** Patron Member, Pearland Theater Guild; Member, Houston Downtown Alliance; Member, Museum of Fine Arts, Houston.

2008-2014 (as University Provost):

Texas Southern University Board of Regents: Administrative Staff Liaison for Academic, Research and Student Life Committee

State of Texas Legislature: Provided testimony (along with President) on academic and research matters

Texas Higher Education Coordinating Board: Represented university on academic and research matters

Chair: Academic Council; Dean's Council; Provost's Cabinet; Research Advisory Council; several Ad Hoc Committees on issues such as distance campuses, online education, University-wide Strategic Planning and Southern Association of Colleges and Schools Accreditation; Internal Advisory Board, NSF Center for Research in Complex Networks

Member: President's Cabinet

**National:**

Board of Trustees: The Association of African Biomedical Scientists; Nigerian Association of Pharmacists and Pharmaceutical Scientists in the Americas (NAPPSA) Board Member, 2006 – present; Vice President, NAPPSA (2006-2012); Nigerian-American Multicultural Center (2012 – present)

**Community:** Patron Member, Pearland Theater Guild; Member, Houston Downtown Alliance; Member, Museum of Fine Arts, Houston.

***UNIVERSITY OF HOUSTON, HOUSTON, TEXAS***

2002 – 2008:

**School:**

Chair: Executive Council; Strategic Planning Committee; International Pharmacy Education Committee; Space Allocation Committee

Member: Several Committees including Dean's Advisory Council and Corporate Advisory Board

**University:**

Member: Council of Deans; UH System Health Sciences Committee; Editorial Advisory Board, The Collegium; UH Advancement Council; Vice Chancellor/Vice President of Research Search Committee

**City:**

Member: Texas Medical Center Council of Pharmacy Executives; Texas Medical Center Policy Council

**National:**

Board of Trustees: The Association of African Biomedical Scientists; Nigerian Association of Pharmacists and Pharmaceutical Scientists in the Americas (NAPPSA) Board Member, 2006 – present; Vice President, NAPPSA (2006 – present)

Chair: Program Committee, Association for Research in Vision and Ophthalmology (2003-2004); American Association of Colleges of Pharmacy Section of Teachers of Biological Sciences (2003-2004)

Member: American Association of Colleges of Pharmacy (Faculty Development and Member Services Committee; Nominating Committee; Resolutions Committee, Council of Deans); FASEB MARC Programs Advisory Board (2000 – present)

***CREIGHTON UNIVERSITY, OMAHA, NEBRASKA***

1991 – 2002:

**School:**

Advisor: Student Advisor; Faculty Advisor, Phi Lambda Sigma (Pharmacy Leadership Society); Faculty Advisor, Academy of Students of Pharmacy Cultural Committee

Chair: Academic Issues Hearing Board; Search Committee for School's Director of Admissions; Information Technology Committee; Ph.D. Supervisory Committee for Angela LeDay, Pharm.D.; M.S. Supervisory Committee for Kaustubh Kulkarni, B.Pharm.; Ad Hoc B.S. Health Sciences Committee; Ad Hoc Pharmacy Graduate Program Committee; M.S. Thesis Supervisory Committee for Ms. Lydia Harris; Committee on Pharmacy Admissions; Ad Hoc Committee on AACP Poster for the School; Ad Hoc Committee on Web course Evaluations; Ad Hoc Committee on Schools Mission Statement; Search Committee for Chair of the Department of Occupational Therapy; Administrative Committee, M.S. Pharmaceutical Sciences Program; Ad Hoc Committee of Chairs/Vice Chairs on Review of Teaching Activities; Academic Misconduct Hearing Board Ad Hoc Pharmacy Graduate Program Committee; Ph.D. Thesis Supervisory Committee for Ms. Catherine Opere; Grant Review Committee; Strategic Planning Committee

Member: Committee on Pharmacy Admissions; Administrative Committee; Strategic Planning Committee

Administrative Committee, M.S. Pharmaceutical Sciences Administrative Committee; M.S. Pharmaceutical Sciences Admissions Committee; Physical Therapy Admissions Committee; ACPE Focus Group, Asynchronous Pharmacy Pathway Steering Committee; Pharm.D./M.S. Graduate Program Committee; Executive Committee; Non-Traditional Pharm.D. Steering Committee; Pharmacy Curriculum Committee; Pharmacy Scholarship and Awards Committee; Rank and Tenure Committee; Grant Review Committee.

**University:**

Chair: Health Sciences Inter-professional Steering Committee

Abstract/Forum Judge: Midwest Student Biomed. Student Research Forum

Creighton Representative: Association of Academic Health Centers Group on Multi-Professional Education Committee

Member: Health Sciences Research Committee; Black Employees Network; Cancer and Smoking Research Program Internal Advisory Committee; Student Experience Subcommittee (University Strategic Planning Committee); Health Sciences Committee for National Center for Research Resources Grant; Proposal; Health Sciences Interdisciplinary Curriculum Committee; Faculty Council; Academic Council; Internal Advisory Board, Creighton Health Careers Opportunity Program; Ad Hoc Committee on Academic Redesign Project, Crises II-III Renovation Task Force; Creighton University Review Panel, The Grant Program of the Suzanne and Walter Scott Foundation, Omaha; Beyond Creighton 2000 Sub-Committee; University Self-Study Steering Committee; Core Planning Committee for All-University Planning Day, May 12, 1999; Jubilee Committee; Health Sciences Committee on Health Professional Partnership Initiative Grant; University Integrated Marketing Committee; Black Faculty & Administrators Committee; Health Sciences Safety Committee.

Coordinator: Creighton Collaborative Health Professions Pipeline Grant; President's First Challenger Committee

President: Creighton University Black Employees Network

**National:**

Board of Trustees and Secretary: The Association of African Biomedical Scientists

Chair: Committee on Minorities, American Society for Pharmacology and Experimental Therapeutics; Ad Hoc Committee for Graduate Student Travel Award Program, American Society for Pharmacology and Experimental Therapeutics Committee on Minorities; Program Committee, Association for Research in Vision and Ophthalmology; American Association of Colleges of Pharmacy Section of Teachers of Biological Sciences.

Consultant: Minority Issues Task Force, Association for Research in Vision and Ophthalmology

Elected Member: Program Committee, Association for Research in Vision and Ophthalmology; also served a chair.

Elected Chair: American Association of Colleges of Pharmacy Section of Teachers of Biological Sciences

Coordinator: Experimental Biology Minority Affairs Chair's Committee

Member: Faculty Development and Member Services Committee, AACP Biological Sciences Section; FASEB MARC Programs Advisory Board; Women in Pharmacology Committee (ex officio), American Society for Pharmacology and Experimental Therapeutics; American Heart Association Research Committee (Nebraska Affiliate); Ad Hoc Committee on New Investigator Proposals, Biological Sciences Section, American Association of Colleges of Pharmacy; Committee on Minorities, American Society for Pharmacology and Experimental Therapeutics; Minorities Issues Task Force, Association for Research in Vision and Ophthalmology Women and Minorities Committee, Association for Research in Vision and Ophthalmology

### **OTHER PROFESSIONAL ACTIVITIES**

Invited Expert Witness for several court cases (both for the prosecutors and for defense) involving the consumption of drugs (1993 – 2001). In general, the basis for testimony is my qualification and experience as a pharmacologist.

### **CONTINUING EDUCATION**

- Rite Aid Educational Conference, New Orleans, LA (October 26-28, 1999)
- AACP Institute on Pedagogical and Curricular Change, Xerox Document University and Training Center, Leesburg, VA (May 21-25, 1999)
- Labor Relations Issues for Management Personnel, Creighton University (March 10, 1999)
- American Association of Colleges of Pharmacy (AACP) Academic Management Symposium, "The Art of Political Advocacy", Washington, DC (February 25-27, 1999)
- Supervisory Training Program, "The Power of Diversity," Creighton University (May 23, 1996)
- Equal Employment Opportunity Compliance for Supervisors, Creighton University (July 1994)
- Winning Grants Writing Workshop organized by University of Louisville Office of Graduate Programs and Research (1990)
- Microcomputer Course organized by University of Louisville Office of Computing and Telecommunications, Louisville, Kentucky (1989)
- Radiation Safety Course organized by Memorial University of Newfoundland Radiation Safety Board, St. John's, Canada (1986)
- Radiological Protection Course organized by Scottish Universities Research and Reactor Center, Glasgow, Scotland (1984)

**PERSONAL**

**CITIZENSHIP:** United States of America

**MARITAL STATUS:** Married to Ekanem O. Ohia, M.D.  
Family Practice Physician  
Kelsey-Seybold Clinics  
Houston, Texas

**CHILDREN:** Odochi (33); Uchechukwu (30)

## Omonike Arike Olaleye, Ph.D. MPH.

Professor of Pharmacology

Program Co-Director, TSU-Baylor College of Medicine, MCH Student Training for Academic Readiness and Success  
Leader, Collaborations and Partnerships Core, TSU-Research Center for Minority Institutions  
Texas Southern University, College of Pharmacy and Health Sciences  
Address: 3100 Cleburne St. Houston, TX 77004  
Telephone: 713-313-1883, E-mail: [Omonike.olaleye@tsu.edu](mailto:Omonike.olaleye@tsu.edu)

### EDUCATION

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#### MPH. Harvard University, Harvard T.H. Chan School of Public Health, Boston, MA.

*The Effect of Prophylactic Antimalarial Treatment on Birth Outcomes Among HIV-infected Pregnant Women in Botswana.*  
Department of Epidemiology. May, 2018.

#### Ph.D. Johns Hopkins University School of Medicine, Baltimore, MD. Department of Pharmacology and Molecular Sciences.

*Methionine Aminopeptidase as a Novel Anti-Tuberculosis Drug Target.* June, 2007.  
UNCF\*Merck Graduate Science Research Dissertation Fellow.  
National Aeronautics Space Administration (NASA)-Harriett Jenkins Pre-doctoral Fellow.

#### B.A. University of St. Thomas, Houston, TX. Department of Chemistry, Major: Chemistry, Minor: Philosophy.

*Magna cum Laude*, Delta Epsilon Sigma. May, 2001.

### ACADEMIC EXPERIENCE: TEACHING, RESEARCH, ACCREDITATION AND ADMINISTRATIVE

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**Professor of Pharmacology**, Texas Southern University (TSU), Houston, TX. 09/2017 - present.  
**Associate Professor of Pharmacology (Tenured)**, TSU. 09/2014 - 08/2017.  
**Associate Professor of Pharmacology (Tenure Track)**, TSU. 09/2012 - 08/2014.  
**Assistant Professor of Pharmacology (Tenure Track)**, TSU. 09/2008 - 08/2012.

- **Graduate Advisor** - Graduated 10 Doctoral Students - 2 Ph.D., 8 Pharm. D., 1 MSc. - 3 serve(d) as faculty at academic institutions, others in Health related institutions and/or Teaching Hospitals ; Presently 4 Ph.D. Candidates in the lab (2 Pharmacology; 2 Pharmaceutics).
- **10 Productive drug discovery and development** research programs in infectious diseases.
- **Faculty advisor** and/or research mentor or thesis committee to a total of 89 students in College of Pharmacy and Health Sciences (COPHS) and College of Science Engineering and Technology (COSET); Research Advisor to 11 undergraduate students/Pharm.D. students who received residency appointments and/or Awards.
- **Teach and coordinate** pharmacotherapy, pharmacology, biomedical, pre-health professions and infectious diseases courses.
- **Successful design and implementation** of new courses and taught a total of 33 courses in doctoral (Ph.D. and Pharm.D.), pre-health and undergraduate programs. Advice, train and assess students (3 to 125 in a class).
- **Maternal and Child Health Training Fellowship Program** – Program Co-Director for Research training for 69 MCH students; 2 MCH Pipeline TAG Ambassadors.

**Interim/Assistant Dean for Student Services (ADSS)**, COPHS, TSU 09/2014 to 04/2016.

*Development and/or Execution of New Initiatives\**

- **Administrative oversight and Leadership of the Office for Student Services in COPHS serving over 1,300** racially, ethnically and culturally diverse students in 6 undergraduate and 2 graduate degree programs.
- **Accreditation:** \*Leadership in development of Novel COPHS Scholar's Academy (Acknowledged by Accreditation Council for Pharmacy Education (ACPE) site evaluator team in November 2015) for Student Academic Enrichment, Academic Advising, Mentoring and Professional Development.
- **Accreditation reports** Led and Generated Student Services section resulting in COPHS Accreditation Affirmation since 2015.
- **Implementation of strategic centralization and formalization of tutorials, training of tutors/mentors, advising, admission, and graduation.**
- \*Development and Implementation of new admission criteria for Pharm. D. admissions.
- \*Development of COPHS Health Sciences Electronic Application System for Implementation in Fall 2017.
- Oversight and implementation of COPHS transition to PharmCAS application system and Early Decision Program.
- \*Implementation of Student Success (Development of Post-Exam Assessment) & Retention Plan.
- Revision of 2009 COPHS Student Handbook for Implementation in Fall 2016.
- \*Design and Development of a Pre-Scholars Health Professions Program for Implementation in Fall 2016.
- Implementation of OSS Role in Student Success & Retention Plan and Restructuring the Registration process for all COPHS.
- Leadership of COPHS Office of Student Services (OSS) functions and responsibilities to provide administrative support to all academic degree programs of the College.
- Administrative oversight of all OSS related College administrative committees (as ex-officio).
- Oversight of COPHS Student Orientation & OSS Participation in University Orientation.
- Oversight of all Student Travel, Travel Workshop, Grievances, Verification.
- Oversight of all Student Admissions, Advising, Registration, Recruitment, Retention, and Graduation.
- Oversight of all Student Organizations, Leaders, and Activities, Oversight of all Scholarships/Awards.

- *Special Projects: Collaboration with Health Professions Pathway Principal Investigators, Pre-pharmacy Curriculum, AACP and OSS related section of Accreditation Reports.*

**Leader, Collaborations and Partnerships Core, TSU Research Centers in Minority Institutions.**

(Grant Award: \$3,907,150: 09/26/14-05/31/17; \$1,443,209/year: 06/01/2017 – 05/31/19)

- *Established an annual RCMI Symposium since February 2016 which highlighted great work at TSU and helped broadened the scope of our collaborations and partnerships resulting in more grants and publications for RCMI.*
- *Led 3 Collaborative RCMI Symposiums which resulted in a high demand for TSU faculty expertise in Pre-clinical drug development; and the development of 10 Research Clusters*
- *Submitted CPRIT grant (>\$5.7 million, Olaleye (Co-I)) with the GCC in 2018.*
- *Productive Partnerships with the Gulf Coast Consortia (GCC), TMC, RCMI-RTRN, BCM, UTEP, RCMI institutions and other partner institutions*

**Program Co-Director, TSU-Baylor College of Medicine, MCH Student Training for Academic Readiness and Success.**

(Grant Award: \$785,000:06/1/16 - 05/31/21)

- *The Maternal and Child Health Student Training for Academic Readiness and Success (MCH STARS) program is a joint one-year undergraduate fellowship program leading to the award of an undergraduate certificate - 53 students in diverse majors.*

**Advisory Council Member, Baylor College of Medicine, Center of Excellence-Health Equity, Training and Research\***

\*(Five-year, \$3.3M grant awarded to BCM, 2017)

**Program Director, TSU National Institutes of Health funded–University of Texas, El Paso BUILDing Scholars Grant.**

(Grant Award: \$20,000: 07/01/2016 – 06/30/2017)

*Advancing Undergraduate Research Through A Novel Drug Discovery Mentoring Program.*

**Adjunct Faculty, University of Texas Health, Houston, TX.**

2009 to 2014.

- *Research collaborations, initiatives, symposiums and grants leading to publications in the discovery of novel antibacterials against drug-resistant pathogens.*

**Assistant Affiliate Member, The Methodist Hospital Research Institute, Houston, TX.**

2009 to present.

Center for Molecular and Translational Human Infectious Disease Research.

- *Research collaborations in the study of agents against drug-resistant Mycobacterium tuberculosis.*

**Adjunct Faculty, University of St. Thomas. Department of Biology and School of Nursing.**

2008 to 2014.

- *Research collaboration to study cytotoxicity of inhibitors of Methionine Aminopeptidase*
- *General Biology I and II, and Laboratory - undergraduate students (6-30 in a class).*
- *Pharmacology - pre-nursing students in the UST School of Nursing (20 in a class).*
- *Microbiology - pre-nursing students in the UST School of Nursing (18 in a class).*

**JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE, BALTIMORE, MD.**

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**Johns Hopkins University School of Medicine, Department of Pharmacology and Molecular Sciences.**

**Graduate Student Research Dissertation.**

2002 to 2007

1. *Target-based drug discovery of new antibiotics (Advisor: Jun Liu, Ph.D.)*

- *Synthesis of Derivatives of a Novel Anti-mycobacterial MetAP inhibitor*
- *Cloned, Over-expressed, Purified and Characterized Methionine Aminopeptidases (MetAP) from Mycobacterium tuberculosis, Enterococcus faecalis, Escherichia coli and Bacillus anthracis.*
- *Identification of Potent and Selective Inhibitors of Bacterial MetAP using a High-Throughput Screening Approach and Discovery of Inhibitors of MtMetAPs with antibacterial effects.*

2. *In vivo Target Validation and Test for Essentiality in M. tuberculosis (Advisor: Jun Liu, Ph.D. in collaboration with Dr. W. Bishai at the Johns Hopkins TB Research Center)*

**Johns Hopkins University School Of Medicine, The Sidney Kimmel Comprehensive Cancer Center.**

Division of Hematologic Malignancies.

2005

Introduction to Clinical Pharmacology and Medicine–Clinical Rotation with Richard Ambinder, MD. Ph.D.

- *Made clinical rounds with Dr. Ambinder's medical team: Nurses, Pharm D., and residents*
  - *Researched and Discussed patient drug usage and clinical issues*
  - *Discussed the development of new strategies for treatment of hematological malignancies in oncology*
  - *Wrote report on natural killer leukemia, drug usage and mechanisms of actions*
-

## **BAYLOR COLLEGE OF MEDICINE, HOUSTON, TX.**

**NOVALASH** in Collaboration with Eser Yuksel, M.D. Associate Professor of Surgery Baylor College of Medicine.

- *Post-Doctoral Fellow and Clinical Research Consultant.*

2008

## **Baylor College of Medicine, Dept. of Family and Community Medicine**

2000 to 2001

- *Clinical Research Data Management*

## **Baylor College of Medicine / S.E.A.R.C.H. Project (Volunteer At Clinic)**

1999 - 2000

- *Patient intake, Conducting vital signs and Nurse Practitioner's Assistant*

## **NATIONAL AERONAUTICS SPACE ADMINISTRATION**

**National Aeronautics Space Administration, Johnson Space Center and Texas Southern University**

*Harriett Jenkins Pre-Doctoral Fellow Mini Research Award and TSU*

2006

- *Affymetrix Microarray Training and Workshop in MD Anderson Cancer Center*
- *Designed experiment, prepared and acquired reagents for global expression profiling of MetAP Inhibitors*

## **PHARMACEUTICAL INDUSTRY**

**Bristol-Meyers Squibb, Lawrenceville, NJ.** Discovery Chemistry, Immunology and Inflammatory Medicine Research

*Assistant Research Associate for James Kempson, PhD.*

2001 to 2002

- *Synthesis of phosphodiesterase 7 inhibitors for treatment of immune and inflammatory diseases.*

**Merck Research Laboratories, West Point, Pa.** Medicinal Chemistry, Oncology drug discovery research

*UNCF\*Merck Undergraduate Fellow and Summer Intern, Merck Mentor: Wesley Trotter, PhD.*

2000 to 2001

- *Studies toward the Synthesis of Inhibitors of Insulin Growth Factor Receptor – 1.*
- *Synthesized derivatives of lead compound for testing in biological assays*
- *Studies toward the Synthesis of Inhibitors of Farnesyl Protein Transferase.*
- *Synthesized an intermediate for the preparation of a piperazone derivative.*

## **RESEARCH EXPERIENCE : DRUG DISCOVERY AND DEVELOPMENT FOR INFECTIOUS DISEASES**

Discovery, validation and development of new therapeutics for the treatment of infections caused by *Leshmaniasis Major*, *Enterococcus faecalis*, *Mycobacterium tuberculosis* and TB-HIV Co-infections.

Project: 1-3. High Throughput Screening for Discovery of Novel Anti-Trypanosomal Agents

Treatments for diseases caused by : *Leshmaniasis Major*, *Trypanosoma cruzi*, and *Trypanosoma brucei*.

**UT El Paso, El Paso, TX.**

Project: 4. Methionine Aminopeptidases (MetAP) as Novel Targets for Tuberculosis and HIV Co-Infection.

**Baylor College of Medicine and BCM-UT Health CFAR.**

Project: 5. High Throughput Screening for Inhibitors of HIV and HIV-TB Co-infection

**UTMB Health, Galveston, TX and University of St. Thomas, Houston.**

Project: 6. Targeting the Role of MetAP in HIV

**UTMB Health, Galveston, TX.**

Project: 7. *Mycobacterium tuberculosis* MetAPs as Antimycobacterial Targets

**Johns Hopkins University and The Methodist Hospital Research Institute.**

Project: 8-9. *Enterococcus faecalis* MetAP as a Target

The Development of Bacterial MetAP Inhibitors as Functional Probes of NME.

**UT Health and Gulf Coast Consortium for Chemical Genomics.**

Project: 10. Drug Development Program: Formulation and Pharmacokinetic Studies. **TSU, Houston, TX.**

Project 11. Advancing Undergraduate Research Through A Novel Drug Discovery Mentoring Program

**Program Director, NIH – TSU-University of Texas, El Paso BUILDing Scholars Grant.**

Project 12. Maternal and Child Health Student Training for Academic Readiness and Success.

**Program Co-Director, TSU-Baylor College of Medicine Partnership.**

U.S. Department of Health and Human Services,

HRSA, Maternal and Child Health Student Training Fellowship Program.

## ACADEMIC AWARDS AND HONORS

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### *Texas Southern University, Houston, TX*

Harvard T. H. Chan School of Public Health Plenary Session Speaker, MCH Practicum	2018
Maternal and Child Health Student Training for Academic Readiness and Success World's Best Teacher	2017
Texas Southern University, Research Scholar of the Year, Award	2017
Texas Southern University, Research Week, Appreciation Award for Presentation	2017
National Institute of Health-UTEP Building Scholars Mentoring Excellence Award	2016
National Institute of Health-UTEP Building Scholars Seed Grant Award for Training	2016
National Institute of Health-UTEP Building Scholars Pilot Research Project Grant	2016
U.S. Department of Health & Human Services Maternal & Child Health Student Training Grant	2016
Invited Guest Speaker, Gordon Research Conference in Italy	2013
Invited Guest Speaker, NASA Center for Bio-Nanotechnology and Environ. Seminar Series	2012
Invited Guest Speaker, TSU Research Week, Awards Luncheon	2011
Gulf Coast Consortium for Chemical Genomics, Welch Foundation Collaborative Grant	2011
Baylor-UT Health Center for AIDS Research Grant	2010
National Institutes of Health/NCRR RCMI Translational Research Network Small Grant Program	2010
Faculty Seed Grant Award	2009
Award of Honor for 1 <sup>st</sup> Place Faculty Poster Presentation, TSU Research Week	2009

### *Johns Hopkins University School of Medicine, Baltimore, MD*

NASA-JFPF Mini Research Award, Johnson Space Center	2006
UNCF*Merck Graduate Science Research Dissertation Fellow	2005
Minority Trainee Research Forum Travel Fellowship for invitational scientific presentation	2005
National Aeronautics Space Administration (NASA)-Harriett Jenkins Pre-doctoral Fellow	2005

### *University of St. Thomas, Houston, TX*

UNCF*Merck Undergraduate Research Fellow	2000
Texas Academy of Science, Collegiate Academy Research Appreciation Award	1999
Undergraduate Chemistry Research Award	1999

## ACADEMIC SERVICES, SOCIETY MEMBERSHIPS AND ACTIVITIES

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### *Texas Southern University, Houston, TX*

- **Chair**, Doctor of Pharmacy Admissions and Academic Standards Committee 2018 - present
- **Active Member**, Faculty Excellence Award Committee 2018
- **Symposium Organizer**, TSU-RCMI Annual Biomedical Research Symposium 2016 - Present
- **Chair**, Graduate Program in Pharmaceutical Sciences Admissions Committee 2013 - 2015
- **Chair**, Professional Year 2 Formative Examination Committee 2009 - 2014
- **Active Member**, Doctor of Pharmacy Admissions and Academic Standards Committee 2009 - present
- **Active Member**, Institutional Animal Care and Use Committee 2010 - 2014
- **Active Member**, Ad-hoc Committee for TSU Intellectual Property Review 2011 - present
- **Active Member**, Ad-hoc Committee for TSU Doctoral Program Review 2012 - present
- **Active Member**, Ad-hoc Committee for new BSc. in pharmaceutical sciences 2013 - 2014
- **Active Member**, Assessment Committee 2015 - 2017
- **Team Co-Leader**, Integrated Pharmacotherapy and Principles of Drug Action Course 2008
- **Faculty Evaluator**, Professional Year 3 Objective Structure Clinical Examination (OSCE) 2009

### External Activities

- **Reviewer**, National Institutes of Health - UTEP, BUILDing Scholars Grant Proposal 2018
- **Advisory Council, Baylor College of Medicine**, Center of Excellence-Health Equity, Training and Research\* 2017  
\*(Five-year, \$3.3M grant awarded to BCM)
- **Local Organizing Committee**, Nigerian Association of Pharmacists and Pharmaceutical Scientists in the Americas 2017
- **Reviewer**, The Institute of Electrical and Electronics Engineers (IEEE) Transactions on Biomedical Engineering 2016
- **TSU COPHS Delegate**, American Association of Colleges of Pharmacy House of Delegates 2014
- **Participant**, AACP Admissions Workshop 2014
- **Discussion Leader**, Gordon Research Seminar for TB Drug Development, Italy 2013
- University of Kentucky/NIGMS Faculty Grant Writing Workshop 2013
- Baylor-UT Health Center for AIDS Research Forum 2010 - 2015
- RCMI Translational Research Network, HIV/AIDS and Infectious Disease Cluster 2010 - Present
- Gulf Coast Consortia, TX, Chemical Genomic Consortium Affiliation 2009 - Present
- Molecular Basis of Infectious Diseases, UT Medical School, Houston, TX 2009 - Present

- Participant of Institute, Pedagogical American Association of Colleges of Pharmacy, Virginia 2010
- Symposium Research Contributor and Presenter, Texas Tuberculosis Research Symposium 2009 - Present

## **RESEARCH AWARDS/GRANTS AWARDED: TOTAL \$8,105,241**

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### **I. Ongoing and New Grant/Awards:**

**1. CPRIT Liang (PI) Olaleye (Co-Investigator) \$5,106,420** 09/01/2018 – 08/31/2023

Project Title: GCC Center for Comprehensive PK/PD & Formulation (CCPF)

Project Goals: To provide PK/PD evaluations and dosage formulation development services.

Role: Co-Director for Educational, Training and Outreach Programs

**2. HRSA-MCH T16MC29831 Olaleye (Co-Program Director) \$785,000** 06/01/2016 - 05/31/2021

U.S. Department of Health and Human Services

*Maternal and Child Health Student Training Fellowship Program*

*The Maternal and Child Health Student Training for Academic Readiness and Success (MCH STARS) program is a joint one-year undergraduate fellowship program leading to the award of an undergraduate certificate - 69 students.*

**3. NIH/NIMHD Olaleye (Core-Leader, Collaborations and Partnerships)** 06/01/2017 – 05/31/19

5G12MD007605

**\$1,443,209/year for 2 years**

Research Centers in Minority Institutions Award

*Center for Biomedical and Health Research Excellence Project*

### **II. Completed Grants/Awards:**

**4. NIH/NIMHD Olaleye (Core-Leader, Collaborations and Partnerships)** 09/26/2014 - 05/31/2017

5G12MD007605

**\$3,907,150**

Additional Research Supplement

**\$308,792**

Research Centers in Minority Institutions Award

*Center for Biomedical and Health Research Excellence Project*

**5. HE0053 Olaleye (Principal Investigator) \$102,380.75** 02/01/2011 - 2014

John S. Dunn Gulf Coast Consortium for Chemical Genomics

R. A. Welch Foundation Chemistry and Biology Collaborative Grant

*The Development of Bacterial MetAP Inhibitors as Functional Probes of NME*

**6. NIH BUILDing Scholars Seed Project Olaleye (Principal Investigator) \$20,000** 07/01/2016 – 06/30/2017

UT El Paso NIH/NIGMS 5UL1GM118970-03

*Advancing Undergraduate Research through a Novel Drug Discovery Scholars Mentoring Program*

To develop a novel collaborative and longitudinal drug discovery undergraduate mentored research program at TSU and establish a formal research mentoring program through the novel COPHS Scholars Academy.

**7. NIH BUILDing Scholars Pilot Project Olaleye (Co-Investigator) \$20,000** 07/01/2016 – 06/30/2017

UT El Paso NIH/NIGMS 5RL5GM11869-03

*Preclinical Development of Two Novel Antileishmanial Agents*

**8. NIH BUILDing Scholars Mentor Award of Excellence Olaleye (Awardee) \$500** 09/23/2016

*Award for Excellence in Mentoring Undergraduate Students*

**9. U54RR022762 Olaleye (Co-PI) \$25,000** 10/22/2010 to 06/30/2011

NIH/NCRR RTRN Small Grants Program

*High Throughput Screen for Discovery of Novel Anti-Trypanosomal Agents*

10. AI36211 **Olaleye (PI)** **\$35,000** 05/01/2010 to 04/30/2012

NIH/NIAID Baylor–UTHouston Center for AIDS Research  
*Methionine Aminopeptidases as Novel Targets for Tuberculosis and HIV Co-infection*

11. TSU Seed Research Grant **Olaleye (Principal Investigator)** **\$15,000** 01/27/09-12/31/2009

Texas Southern University  
*Methionine Aminopeptidases as Novel Anti-infective Targets*

12. RCMI RTRN Collaborative Travel Grant **Olaleye (Co-Principal Investigator)** 03/27/2012

NIH/NCRR RTRN Small Grants Program  
*To conduct experiments in UT El Paso to characterize new inhibitors of Leishmania Major*

## PUBLICATIONS: PAPERS AND PATENT APPLICATIONS

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1. Falana A, Akpojivovwi V, Sey E, Akpaffiong A, Agumbah O, Chienye S, Banks J, Jones E, Spooner KK, Salemi JL, **Olaleye OA**, Onyiego SD, Saliu HM. Hospital length of stay and cost burden of HIV, TB and HIV-TB coinfection among pregnant women in the United States. *American Journal of Infection Control*. 2017 Nov 3. pii: S0196-6553(17)31068-4. PMID:29108662. DOI:[10.1016/j.ajic.2017.09.016](https://doi.org/10.1016/j.ajic.2017.09.016).
2. Fernandez D, Salami I, Davis J, Mbah F, Kazeem A, Ash A, Babino J, Carter L, Salemi JL, Spooner KK, **Olaleye OA**, Saliu HM. HIV-TB Coinfection Among 57 million Pregnant Women, Obstetric Complications, Alcohol Use, Drug Abuse and Depression. *Journal of Pregnancy*, 2018, Research Article ID 5896901, PMID 29507814. [doi.org/10.1155/2018/5896901](https://doi.org/10.1155/2018/5896901).
3. Prophet J, Kelly K, Domingo J, Ayeni H, Djoko Mekouguem XP, Dockery B, Allam F, Kaur M, Artis J, Spooner KK, Salemi JL, **Olaleye OA**, Saliu HM. Severe pre-eclampsia among women with sickle cell disease and HIV. *Pregnancy Hypertension: An International Journal of Women's Cardiovascular Health*. 2018 Jan;11:87-91. PMID:29523281 DOI:[10.1016/j.preghy.2018.01.006](https://doi.org/10.1016/j.preghy.2018.01.006).
4. Dennis E, Hao Y, Tamambang M, Roshan T, Gatlin K, Diallo F, Ogunyemi O, Bghigh H, Spooner KK, Salemi JL, **Olaleye OA**, Khan KZ, Aliyu MH, Saliu HM. Tuberculosis During Pregnancy in the United States: Racial/Ethnic Disparity in Pregnancy Complications and in-hospital death. *PLoS One*. 2018 March 26;13(3):e0194836. PMID:29579086. Doi:[10.1371/journal.pone.0194836](https://doi.org/10.1371/journal.pone.0194836).
5. John SF, Aniemeke E, Ha NP, Chong CR, Gu P, Zhou J, Zhang Y, Graviss E, Liu JO, and **Olaleye OA**. Characterization of 2-hydroxy-1-naphthaldehyde isonicotinoyl hydrazone as a Novel Inhibitor of Methionine Aminopeptidases from *Mycobacterium tuberculosis*. *Tuberculosis*, 101, S73-77, 2016. PMID:27856197. DOI:[10.1016/j.tube.2016.09.025](https://doi.org/10.1016/j.tube.2016.09.025).
6. **Olaleye OA**, John SF, Isichei AC, Liu JO, Maldonado R, and Endsley J. Methionine Aminopeptidase Inhibitors for Treating Infectious Diseases US 2015/ 0141415 A1, May 21, 2015.
7. Ebeid A, Davis P, **Olaleye O**, Guinn D, Aniemeke E, Eluwa A, and Finney S. The TB and HIV Syndemic: Prevention, Detection, and Treatment. *US Pharmacists* 63-68, April, 2013.
8. Vijayakumar S, Finney John S, Nusbaum R, Ferguson M, Cirillo JD, **Olaleye O**, and Endsley J. *In vitro* Model of Mycobacteria and HIV Co-infection for Drug Discovery. *Tuberculosis* 93 Suppl 1:S66-70, 2013.
9. Bhat S, **Olaleye O**, Meyer KJ, Shi W, Zhang, Y, and Liu, JO. Analogs of N0-hydroxy-N-(4H,5H-naphtho[1,2-d]thiazol-2-yl)methanimidamide inhibit Mycobacterium tuberculosis methionine aminopeptidases. *Bioorg. Med. Chem*. 20: 4507-4513, 2012.
10. Liu JO, **Olaleye OA**, and Bhat S. Inhibitors of Methionine Aminopeptidases and Methods of Treating Disorders. US 2012/0196852 A1, August, 2012.
11. **Olaleye O**, Raghunand, TR, Bhat, S., Chong CR, Gu, P, Zhou, J, Zhang, Y, Bishai, WR, and Liu, JO. Characterization of Clioquinol and Analogs as Novel Inhibitors of Methionine Aminopeptidases from Mycobacterium tuberculosis. *Special Issue of Tuberculosis. Tuberculosis* 91 Suppl 1:S61-5, 2011.
12. Liu JO, **Olaleye OA**, and Bhat S. Inhibitors of Methionine Aminopeptidases and Methods of Treating Disorders. WO 2011/017519 A2, February, 2011.
13. **Olaleye O**, Raghunand TR, Bhat S, He J, Tyagi S, Lamichhane G, Gu P, Zhou J, Zhang Y, Grosset J, Bishai WR, Liu JO. Methionine aminopeptidases from Mycobacterium tuberculosis as novel antimycobacterial targets. *Cell Press, Chem Biol*. 17:86-97, 2010. *IF*:6.743.
14. **Olaleye OA**, Bishai WR, Liu JO. Targeting the role of N-terminal methionine processing enzymes in Mycobacterium tuberculosis. *Tuberculosis (Edinb)*. 89 Suppl 1:S55-9, 2009.
15. Kempson, J, Pitts, WJ, Barbosa, J, Guo, J, **Omotoso, O**, Watson, A, Stebbins, K., Starling, GC, Dodd, JH, Barrish, JC, Felix, R, and Fischer, K. Fused pyrimidine based inhibitors of phosphodiesterase 7 (PDE7): Synthesis and initial structure-activity relationships. *Bioorg. Med. Chem. Lett*. 15, 1829-1833, 2005. PMID: 15780616.
16. Addlagatta, A, Quillin, ML, **Omotoso, O**, Liu, J.O., and Matthews, BW. Identification of an SH3 Binding Motif in a New Class of Methionine Aminopeptidase from Mycobacterium tuberculosis Suggests a Mode of Interaction with the Ribosome. *Biochemistry* 44, 7166-7174, 2005. PMID:15882055.
17. **Olaleye OA**, Isichei AC, and Liu JO. D7245 US Patent Application, 10/01/2016.
18. **Olaleye OA**, Finney John, S, Endsley J, Liu JO, and Maldonado, R.AC. D7245C1 US Patent Application, 11/29/2016.
19. **Olaleye OA**, Liu JO, Finney John, S, and Isichei AC. D7245C2 US Patent Application, 11/29/2016.

20. **Olaleye OA**, Finney John, S, Endsley J, Liu JO, and Maldonado, R. D7245D US Patent Application, 11/29/2016.
21. **Olaleye OA**, Xie H, Ekpenyong O. D7245CIP, US Patent Application, 06/29/2017.
22. Ekpenyong O, Cooper C, Ma J, Liang D, **Olaleye OA** and Xie H. A Simple, Sensitive and Rapid LC-MS/MS Method for the Determination of A Potent and Selective Inhibitor of Methionine Aminopeptidases: Application to Pharmacokinetic Studies. *Journal of Chromatography B*. 1097-1098, 35-43, 2018. <https://doi.org/10.1016/j.jchromb.2018.08.027>.

#### SUBMITTED MANUSCRIPTS UNDER REVIEW

23. Erwin E., Addison, A., Perli, E., Chow, G., Bhalla, S., Vu, L., Condic, N., Hunyh, B., Ramtahal, C., John S., **Olaleye, OA.**, Rosell, RC. Isoniazid: The Good, The Bad, The Alternatives. *Special Issue of Tuberculosis. Tuberculosis 2018*. Submitted, under review 2018.
24. Nguyen NH, Le EN, Mbah VO, Miller L, Welsh EB, Daas RO, Magazine CB, Spooner KK, Salemi JL, **Olaleye OA**, Salihu HM. Opioids Use Among Hiv-Positive Pregnant Women and the Risk For Maternal-Fetal Complications. Submitted, under review 2018.
25. Felipe Rodriguez; Sarah F. John; Elizabeth Calzada; Eva Iniguez; Sebastian Montalvo; Cristina Gutierrez; Karina Michael; Lyndsey White; Dong Liang; **Omonike A. Olaleye**; Rosa A. Maldonado. *In Vitro* and *In Vivo* Characterization of Potent Antileishmanial Methionine Aminopeptidase-1 Inhibitors. Submitted under review December 30, 2018, PLOS Neglected Tropical Diseases.

*Maiden name: Omonike Omotoso: Omotoso, O.*

#### SELECTED PRESENTATIONS AND/OR PUBLISHED ABSTRACTS

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26. Sarah F. John, Manvir Kaur, Collins Onyenaka, Janice Endsley, Ngan P. Ha, Edward A. Graviss, and **Omonike A. Olaleye**. **The Development of New Anti-infectives for Drug Resistant Infections**. Antimicrobial Resistance and Stewardship Conference, Texas Medical Center, Houston. January 25, 2019.
27. **Olaleye OA**. Advancing the Development of Novel Anti-infective Agents at TSU. **Texas Southern University - Research Centers for Minority Institutions**, September 21, 2018.
28. **Olaleye OA**, Zash R, Diseko M, Mayondi G, Mabuta J, Makhema J, and Shapiro RL. The Effect of Prophylactic Antimalarial Treatment on Birth Outcomes Among HIV-infected Pregnant Women in Botswana. **Harvard University, Harvard T.H. Chan School of Public Health, Boston, MA**. Plenary Session Speaker, MPH Practicum, May 21, 2018.
29. **Olaleye OA**, and Salihu, HM. Progress on Maternal and Child Health Student Training for Academic Readiness and Success (MCH STARS) program at TSU and Baylor College of Medicine. **MCH Pipeline Grantees Annual Meeting**, WI. April 24, 2018.
30. **Olaleye OA**, John SF, Endsley J, and Liu JO. Development of Methionine Aminopeptidase Inhibitors Targeting Tuberculosis and HIV Co-infection. **Tuberculosis Keystone**, Canada. April 17, 2018.
31. **Olaleye OA**, John SF, Endsley J, and Liu JO. Development of Methionine Aminopeptidase Inhibitors Targeting Tuberculosis and HIV Co-infection. **5th Texas Tuberculosis Research Symposium, Texas Tech University Health Science Center**, El Paso, TX. February 9, 2018.
32. Boughaba F, Ma J, Okunbor J, Ash A, Maldonado R, Liang D, **Olaleye OA**. Development of a Sensitive LC-MS/MS Method for the Quantification of OJT007, a Novel Chemotherapeutic Agent for Leishmaniasis. Antimicrobial Resistance and Stewardship Conference, Texas Medical Center, Houston. January 18, 2018.
33. **Olaleye OA**, Isichei AC, Xie, H, and Liu JO. The Discovery of Novel Chemotherapeutic Agents for Hospital Acquired Infections. **ASPET Academic Drug Discovery Colloquium, National Institutes of Health**, Bethesda, MD. October, 2017.
34. **Olaleye OA**, Isichei AC, Ajewole V, Bhat S. and Liu JO. The Discovery and Development of New Chemotherapeutic Agents for Hospital Acquired Infections. **Stanford Medicine X**, Stanford University, Palo Alto, California, September, 2017.
35. **Olaleye OA**. Voyage to Discovery. Invited Guest Speaker, Tri-Beta Honors Induction Ceremony, **University of St. Thomas**, Houston, Texas, September, 2017.
36. **Olaleye OA.**, John SF., Boughaba F., White, L., and Liang D. Development of formulations for novel chemotherapeutic agents for Tuberculosis and HIV co-infection. Oral Presentation, **Global Conference on Pharmaceutics and Drug Delivery Systems, Valencia, Spain**. July 1, 2017.
37. **Olaleye OA**. Methionine Aminopeptidases as Therapeutic Targets for Tuberculosis. Invited Speaker, Department of Biomedical Engineering, **University of Houston**, April 14, 2017.
38. **Olaleye OA**. Advancing Undergraduate Research Through Novel Collaborative Mentoring Program. Invited Speaker, **Texas Southern University Research Week, Awards Luncheon**, March 30, 2017.
39. **Olaleye OA**, Finney John S, Liu JO, and Endsley J. The Development of Novel Chemotherapeutic Agents for Tuberculosis and HIV co-infection. **Stanford Medicine X Conference**, Stanford University, Palo Alto, California, September, 2016.
40. **Olaleye OA**. Collaborations and Partnerships Core, Advancing Biomedical Research through Collaborations and Partnerships. TSU-RCMI Annual Biomedical Collaborative Research Symposium. Houston, Texas, February 2016.
41. **Olaleye OA**. Methionine Aminopeptidase as a Potential Chemotherapeutic Target for Tuberculosis. Oral Presentation. **GORDON RESEARCH CONFERENCE: TUBERCULOSIS DRUG DEVELOPMENT, ITALY. JULY 2013**.

42. **Olaleye OA.** A Novel Approach to Drug Discovery for Chemotherapy of Tuberculosis and Co-infections. Oral Presentation. **TEXAS TUBERCULOSIS RESEARCH SYMPOSIUM, SAN ANTONIO, TX. APRIL 2013.**
43. **Olaleye OA.** Methionine Aminopeptidase as an Infectious Disease Drug Target. Oral Presentation. **RICE UNIVERSITY CHEMISTRY SEMINAR SERIES, HOUSTON, TX. JANUARY 2013.**
44. **Olaleye OA,** Finney S, Isichei A, Ajewole VB, Calzada E, Cruz MR, Maldonado RA, Garsin DA, and Liu JO. MetAP as a Novel Infectious Disease Drug Target. **RESEARCH CENTERS IN MINORITY INSTITUTIONS SYMPOSIUM, PUERTO RICO. DEC. 2012.**
45. **Olaleye OA,** Finney S, Aniemeke E, Siwak E and Nance CL. Methionine Aminopeptidases as Novel Targets for Infectious Diseases. **AIDS RESEARCH FORUM, BAYLOR COLLEGE OF MEDICINE-UTHealth, TX. MAY 2012.**
46. **Olaleye OA.** A Novel Approach to Drug Discovery in Infectious Disease. Oral Presentation. **NASA CBER SEMINAR SERIES, TSU, HOUSTON, TX. MARCH 2012.**
47. Isichei A, Fellers M, Price L, Ajewole V, Butler R, Liu JO, Garsin DA and **Olaleye OA.** The Identification and Characterization of Inhibitors of Methionine Aminopeptidase From *Enterococcus Faecalis*. Poster Presentation. **MOLECULAR BASIS OF INFECTIOUS DISEASE CONFERENCE, HOUSTON, TX. March 2012.**
48. **Olaleye OA.** Targeting the Role of Methionine Aminopeptidases in Infectious Diseases - Oral Presentation. **SYMPOSIUM ON INFECTIOUS DISEASES AND HEALTH DISPARITY, UT EL PASO. APRIL 2011.**
49. **Olaleye OA.** Targeting the Role of Methionine Aminopeptidases in Infectious Diseases - Oral Presentation. **TEXAS TUBERCULOSIS RESEARCHER SYMPOSIUM AT THE UNIVERSITY OF TEXAS MEDICAL BRANCH, GALVESTON, TX. APRIL 2011.**
50. **Olaleye OA.** Targeting the Role of Methionine Aminopeptidases in Infectious Diseases - Oral Presentation. **TEXAS SOUTHERN UNIVERSITY RESEARCH WEEK-TSU OFFICE OF RESEARCH, HOUSTON, TX. APRIL 2011.** Invited speaker for awards luncheon.
51. **Olaleye OA,** Fellers M, Price L, Butler R, Garsin DA, Liu JO. The Characterization Of Inhibitors Of Methionine Aminopeptidase From *Enterococcus Faecalis*. **RESEARCH CENTERS IN MINORITY INSTITUTIONS SYMPOSIUM, Nashville, TN December 2010.**
52. **Olaleye OA,** Raghunand TR, Bhat S, He J, Tyagi S, Lamichhane G, Gu P, Zhou J, Zhang Y, Grosset J, Bishai WR and Liu JO . MetAPs as novel antibacterial targets- Oral. **MICROBIOLOGY AND MOLECULAR GENETICS SEMINAR SERIES: UT HEALTH, HOUSTON APRIL 2010.**
53. **Omonike Olaleye,** Tirumalai R. Raghunand, Shridhar Bhat, Jian He, Sandeep Tyagi, Gyanu Lamichhane, Peihua Gu, Jiangbing Zhou, Ying Zhang, Jacques Grosset, William R. Bishai and Jun O. Liu . MetAPs as novel antibacterial targets- Oral Presentation. **TEXAS TUBERCULOSIS RESEARCHER SYMPOSIUM UT HEALTH. FEBRUARY 2009.**
54. **Omonike Olaleye,** Tirumalai R. Raghunand, Shridhar Bhat, Jian He, Sandeep Tyagi, Gyanu Lamichhane, Peihua Gu, Jiangbing Zhou, Ying Zhang, Jacques Grosset, William R. Bishai and Jun O. Liu . Methionine aminopeptidases as novel antibacterial targets- Oral Presentation. Methionine aminopeptidases as novel antibacterial targets- Oral and Poster Presentation. **TSU RESEARCH WEEK-TSU OFFICE OF RESEARCH, HOUSTON, TX. MARCH 2009.**
55. **Omotoso, O., & Liu, J.O.** Discovery of Inhibitors of Methionine Aminopeptidases from *Mycobacterium tuberculosis* using a High-Throughput approach - Oral Presentation. **UNCF\*MERCK SCIENCE, PENNSYLVANIA. JUNE 26, 2007.**
56. **Omotoso, O., Price, L. & Liu, J.O.** Discovery of Inhibitors of Methionine Aminopeptidases from *Enterococcus faecalis*. -Oral & Poster Presentation. **INTERNATIONAL ASTRONAUTICAL FEDERATION – 57<sup>TH</sup> IAC CONGRESS, VALENCIA, SPAIN. OCTOBER 5, 2006.**
57. **Omotoso, O., & Liu, J.O.** Discovery of Inhibitors of Methionine Aminopeptidases from *Mycobacterium tuberculosis*.-Oral & Poster Presentation. **NASA SYMPOSIUM – MARSHALLS SPACE CENTER, ALABAMA. JULY, 2006.**

#### **MCH STARS Student Presentations, 2018**

58. Roshan T, Dennis E, Hao Y, Tamambang M, Gatlin K, Diallo F, Ogunyemi O, Bghigh H, Spooner KK, Salemi JL, **Olaleye OA,** Salihu HM. Tuberculosis During Pregnancy: Racial/Ethnic Disparity. **5th Texas Tuberculosis Research Symposium, Texas Tech University Health Science Center, El Paso, TX. February 9, 2018.**
59. Fernandez D, Salami I, Davis, Janelle, Mbah, Florence, Kazeem, Aisha, Ash, Abreah, Babino, Justin, Carter, Laquiesha, Salemi JL, Spooner KK, **Olaleye OA,** Salihu HM. HIV-TB Coinfection Among 57 million Pregnant Women, Obstetric Complications, Alcohol Use, Drug Abuse and Depression. **5th Texas Tuberculosis Research Symposium, Texas Tech University Health Science Center, El Paso, TX. February 9, 2018.**

**MCH STARS Student Presentations 2017 at:** TSU Research Week March 28, 2017, TSHP, Galveston 2017 and HDEART-Disparities in Health in America, June 19, 2017.

60. **Cost Burden of HIV and Tuberculosis among Pregnant Women.** Falana A<sup>#</sup>, Akpojiovwi V<sup>#</sup>, Sey E<sup>#</sup>, Akpaffiong A<sup>#</sup>, Agumbah O<sup>#</sup>, Chienye S<sup>#</sup>, Banks J<sup>#</sup>, Jones E<sup>#</sup>, Spooner KK<sup>‡</sup>, Salemi JL<sup>‡</sup>, **Olaleye OA** \*, Salihu HM <sup>‡</sup>.
61. **HIV-TB Co-infection Among Pregnant Women, Pregnancy Complications, Mental Health and Substance Abuse.** Fernandez D.\*, Salami I.\*<sup>#</sup>, Davis J.\*<sup>#</sup>, Mbah F.\*<sup>#</sup>, Kazeem A.\*<sup>#</sup>, Ash A.\*<sup>#</sup>, Babino J.\*<sup>#</sup>, Carter L.\*<sup>#</sup>, Spooner KK<sup>‡</sup>, Salemi JL<sup>‡</sup>, **Olaleye OA** \*, Salihu HM <sup>‡</sup>.

62. **Pre-eclampsia Among Women with Sickle Cell Disease and HIV.** Prophet J<sup>#</sup>, Kelly K<sup>#</sup>, Domingo J<sup>#</sup>, Ayeni H<sup>#</sup>, Djoko Mekouguem XP<sup>#</sup>, Dockery B<sup>#</sup>, Allam F<sup>#</sup>, Kaur M<sup>#</sup>, Artis J<sup>#</sup>, Spooner KK<sup>‡</sup>, Salemi JL<sup>‡</sup>, **Olaleye OA** <sup>\*</sup>, Salihu HM <sup>‡</sup>.
63. **Tuberculosis During Pregnancy: Racial/Ethnic Disparity.** Dennis EM<sup>#</sup>, Hao Y<sup>#</sup>, Tamambang M<sup>#</sup>, Roshan TN<sup>#</sup>, Gatlin KJ<sup>#</sup>, Diallo F<sup>#</sup>, Ogunyemi OT<sup>#</sup>, Bghigh H<sup>#</sup>, Spooner KK<sup>‡</sup>, Salemi JL<sup>‡</sup>, **Olaleye OA** <sup>\*</sup>, Salihu HM <sup>‡</sup>.

**MCH STARS Student Accepted and Presented Abstracts: TSU Research Week March 27, 2018**

64. **Maternal Cerebral Lipidosis in the United States and Adverse Pregnancy Outcomes.**  
Charide Z.<sup>#</sup>, Payne D. <sup>#</sup>, Okorochoa M.<sup>#</sup>, <sup>#</sup>, Anugwom C. <sup>#</sup>, Davis J. <sup>#</sup>, Enwerem C. <sup>#</sup>, Spooner KK<sup>‡</sup>, Salemi JL<sup>‡</sup>, **Olaleye OA** <sup>\*</sup>, Salihu HM <sup>‡</sup>.
65. **Opioid Use Among Pregnant Women with Sickle Cell Disease in the United States and Maternal Infant Outcomes.**  
Ikeanyionwu Charles, Francis Darlington, Mbah Acha Benjamina, Roshan Tasha,, Kutse Seun, Abajue Uzoamaka, Osazuwa Billy, Ian Gomez, Spooner KK<sup>‡</sup>, Salemi JL<sup>‡</sup>, **Olaleye OA** <sup>\*</sup>, Salihu HM<sup>‡</sup>.
66. **Diabetes in Pregnant Women: Maternal-infant Morbidity And Mortality in the United States.**  
Gabriella T., Oyinkansola A., Osazuwa I., Akpan E., Okolie U., Johnson M., Spooner KK<sup>‡</sup>, Salemi JL<sup>‡</sup>, **Olaleye OA** <sup>\*</sup>, Salihu HM<sup>‡</sup>.
67. **Trends in Acute Appendicitis Among Pregnant Women: The Risk For Cardiac Arrest and Maternal-Fetal Mortality.**  
Anene N. <sup>#</sup>, Argueta E. <sup>#</sup>, Au T. <sup>#</sup>, Giger D. <sup>#</sup>, Ogba C. <sup>#</sup>, Oluwatoba A. <sup>#</sup>, Omoyele O. <sup>#</sup>, Spooner KK<sup>‡</sup>, Salemi JL<sup>‡</sup>, **Olaleye OA** <sup>\*</sup>, Salihu HM<sup>‡</sup>.
68. **Opioids Use Among Hiv-Positive Pregnant Women and the Risk For Maternal-Fetal Complications.**  
Nguyen NH<sup>#</sup>, Le EN<sup>#</sup>, Mbah VO<sup>#</sup>, Miller L<sup>#</sup>, Welsh EB<sup>#</sup>, Spooner KK<sup>‡</sup>, Salemi JL<sup>‡</sup>, **Olaleye OA** <sup>\*</sup>, Salihu HM<sup>‡</sup>.

*Texas Southern University\* and Baylor College of Medicine<sup>‡</sup>, #equal contribution*

## **COURSES DESIGNED, DEVELOPED AND TAUGHT**

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### ***Texas Southern University, Houston, TX.***

#### **Integrated Doctor of Pharmacy Curriculum**

1. Principles of Drug Action I, PHAR 438 (Teach, 2009)
2. Principles of Drug Action I Lab, PHAR 418 (Teach, 2009)
3. Principles of Drug Action II, PHAR 439 (**Design, Develop, Coordinate and Teach, 2010 to 2016**)
4. Principles of Drug Action II Lab, PHAR 419 (**Design, Develop, Coordinate and Teach, 2010 to 2016**)
5. Principles of Drug Action III, PHAR 538 (Teach, 2010 to 2012)
6. Principles of Drug Action III Lab, PHAR 518 (Teach, 2010 to 2012)
7. Pharmacotherapy of the Respiratory System, PHAR 641 (**Design, Develop, Coordinate and Teach, 2012-2017**)
8. Pharmacotherapy of the Gastrointestinal System, PHAR 642 (Teach, 2013-2018)
9. Pharmacology PHAR 428, Pharmacogenetics (Teach, 2017 - 2019)
10. Pharmacology PHAR 649, Gastrointestinal System (Coordinate, 2019)

#### **Old Doctor of Pharmacy Curriculum**

11. Pharmacology and Toxicology I, PAS 537 (Teach 2008 to 2009)
12. Pharmacology and Toxicology I Lab, PAS 517 (Teach 2008 to 2009)
13. Chemotherapeutics, PAS 539 (Teach, 2009 to 2011)

#### **Graduate program in Pharmaceutical Sciences (Ph.D.)**

14. Advanced Biochemistry, PHS 812 (**Design, Coordinator and Teach, 2009**)
15. Bioethics, PHS 800 (**Design, Coordinator and Teach, 2010-2012, 2018**)
16. Laboratory Rotation in Pharmacology, PHS 814 (Rotation Supervisor)
17. Experimental Design/Instrumentation/Clinical Measurements, PHS 807 (Teach and Coordinate, 2010 to 2019)
18. Seminar/Special Topics/Grantsmanship, PHS 802 (Teach, 2010, 2017)
19. Ph.D. Research, PHS 916/917 (Teach and Thesis Advisor, 2009 to 2018)
20. Respiratory Pharmacology, PHS 909 (**Design, Develop, Coordinate and Teach, 2008**)
21. Genetics and Pharmacogenomics, PHS 904 (**Design, Develop, Coordinate and Teach, 2009 to 2017**)
22. Pathophysiology, PHS 808 (Teach, 2013 - 2017)
23. Cell Biology, PHS 901 (Teach, 2016, 2019)
24. Seminar/Special Topics/Grantsmanship, PHS 803 (Teach and Coordinate, 2017)
25. Pharmacology PHS 809 (Teach, 2018, 2019)

#### **Maternal and Child Health STARS Certificate Fellowship for Undergraduate Students (2016-2021)**

A Joint Partnership with Baylor College of Medicine: ***Omonike Olaleye, TSU Program Co-Director***

26. Foundations of Maternal and Child Health
27. Maternal Child Health Emerging Issues Seminar
28. Research Methodology

#### **Health Sciences Program**

29. Global Health Seminar Class (**Guest Lecturer, Summer 2013/Fall 2014/Summer 2015/Spring 2016/2017**)
30. Epidemiology for Masters in Healthcare Administration (**Guest Lecturer, Summer 2017**)
31. Health Disparities, Public Health (**Guest Lecturer, Spring 2018**)

#### **Pre-Professional, Pre-Pharmacy Program**

32. Summer Academy, Pharmacology (Co-Coordinator and Teach, Summer 2009 to 2012)
33. Pharmacy Applications, PHAR 211 (Teach, 2009-2016)
34. Pharmacy Orientation, PHAR 112 (Teach, 2009, 2015, 2017)

### ***University of St. Thomas, Houston, TX.***

#### **Undergraduate Program in Biology**

35. General Biology I, BIOL 1342 (Teach, 2008)
36. General Biology II, BIOL 1352 (Teach, 2012)
37. General Biology II, Laboratory, BIOL 1152 (Teach, 2012)

#### **Pre-Nursing Program in the School of Nursing**

38. Pharmacology, BIOL 2355 (Teach, 2013)
39. Microbiology, BIOL 2333 (Teach, 2013/2014)

# **Nora Inyang Osemene, MPharm, Pharm.D.**

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## **SUMMARY OF QUALIFICATIONS**

Dr. Nora Osemene is Professor of Pharmacy Practice and recently completed a three year tenure as Associate Dean for Academic Affairs. She has extensive administrative experiences in higher education that includes participation in strategic planning, accreditation processes, academic assessment, program review, curriculum development and revisions, faculty development and student support services. Dr. Osemene is the author of over fifty scientific publications, speaker at 30 conferences. She serves on the editorial board of more than 10 scientific journals and a recipient of major research grants from the United States Departments of Education, Health and Human Services and Veteran Affairs. Dr. Osemene also serves on accreditation site visit teams for American Council for Pharmacy Education (ACPE) the organization responsible for accrediting US Colleges of Pharmacies.

## **PROFESSIONAL EXPERIENCE**

### **College of Pharmacy and Health Sciences (COPHS), Texas Southern University, Houston, Texas:**

#### **Associate Dean for Academic Affairs / Chief Academic Officer (2014-2017)**

- ◆ Providing leadership and coordination for all 9 College of Pharmacy and Health Sciences (COPHS) academic programs.
- ◆ Developing, administering, and evaluating all 9 COPHS academic programs to ensure achievement of COPHS academic mission.
- ◆ Provide leadership for strategic planning, resource allocation and continuous improvement programs implementation.
- ◆ Oversight of student progression and retention efforts. Developing, implementing and evaluating learning enhancement programs for students to improve retention and progression.
- ◆ Collaborated with dean, department chairs and administration to support and develop faculty enhancement programs.
- ◆ Developing and maintaining all administrative and accreditation reports for all programs
- ◆ Leading accreditation self-study activities including reports generation for all COPHS academic programs.
- ◆ Provide Administrative oversight of COPHS academic committees including promotion and tenure committee
- ◆ Represent the college in the absence of the dean.

#### **Highlights of Accomplishments Include:**

- ◆ Reorganized COPHS to foster the strategic aim of one college one vision and improve academic programming.
- ◆ Implemented summer enhancement academy for incoming students Pharmacy and Health Administration, Environmental Health, Respiratory Therapy, Clinical Laboratory Science and Health Information Management.
- ◆ Restructure student success plans and expanded to all COPHS programs.
- ◆ Implemented new integrative curricula geared to prepare practice ready graduates and responsive to all new accreditation standards for pharmacy, HA and RT programs.
- ◆ Achieve reaccreditation for pharmacy and RT programs.
- ◆ Restructure faculty workload policy to achieve equitability
- ◆ Implemented post tenure review process as a part of faculty enhancement program.

### **Department Chair for Pharmacy Practice (2007-2014)**

- ◆ Promoted academic quality of the department
- ◆ Reviewed departmental curriculum and course offerings
- ◆ Developed and submitted departmental course offerings each academic year
- ◆ Mentored and evaluated departmental faculty
- ◆ Conducted searches for faculty positions
- ◆ Developed and monitored departmental annual budget requests
- ◆ Supervised and evaluated support staff
- ◆ Managed departmental assessments
- ◆ Managed grants, special programs and developmental projects

### **Highlights of Accomplishments**

- ◆ Developed and implemented a new integrated Pharm.D and Respiratory Therapy Curricula.
- ◆ Developed and implemented integrated Pharmacy and Public Health courses.
- ◆ Restructure and expanded the department.
- ◆ Recruited 8 tenure track faculties (assistant Professors) and over 50% of all Adjunct Faculty currently appointed to serve in COPHS pharmacy curriculum.
- ◆ Extramural funds increased by over 76% during my tenure
- ◆ Promoted seven Assistant Professors to Associate and two from Associate to full Professor
- ◆ Restructured and expanded the experiential division of the department.
- ◆ Recruited two directors for IPPE and APPE training programs
- ◆ Developed and implemented the IPPE curriculum
- ◆ Developed, implemented an ASHP accredited community pharmacy residency program

### **Director of Continuing Pharmaceutical Education (CPE) – 1997 – 2000**

- ◆ Developed Continuing Pharmacy Education workshops for pharmacists.
- ◆ Developed and monitored budget and proceeds offered programs
- ◆ Maintained continuous quality improvements for all educational programs
- ◆ Supervised support staff

### **Highlights of Accomplishments**

- ◆ Achieved ACPE accreditation for the program
- ◆ Restructured the division with improvement in both the quality and quantity of offerings
- ◆ Provided 5 continue education CPE offering (within the first year versus none the prior year)

### **Chicago State University College of Pharmacy**

#### **Program Consultant: 2012**

- ◆ Reviewed current CSU, Department Application Criteria (DAC) for the Department of Pharmacy Practice
- ◆ Completed professional rating on DAC rater form
- ◆ Provided structured commentary/input for adjustment of the DAC.

### **EDUCATION**

- ◆ Doctor of Pharmacy, Texas Southern University - (1993)
- ◆ M.Sc. (Pharmacy) University of Houston - (1991)
- ◆ B.S. (Pharmacy), University of Houston - (1987)
- ◆ BA (Biochemistry) University of Iowa - (1984)

## PROFESSIONAL LICENSURE

Licensed Pharmacist in the state of Texas, USA

## GRANTS

- ◆ Texas Southern University small research grant - (2011 - 2012)
- ◆ Centers for Medicare and Medicaid Services research grant - (2005 - 2008)
- ◆ US Department of Education Title III "Pharm. D. Program enhancement grant - (2009)
- ◆ US Department of Veterans Affairs. Health Services Research and Development (HSR&D) - (2003 - 2006)
- ◆ US Department of Veterans Affairs. Health Services Research and Development (H SR&D): HBU 01-113. "Medicare HMO Enrollment and VA Use by Minority and Low Income Veterans" - (2002 - 2003)
- ◆ US Department of Veterans Affairs. Health Services Research and Development (H SR&D): HBU 01-113. "Medicare HMO Enrollment and VA Use by Minority and Low Income Veterans" - (2001 - 2002)
- ◆ Merck educational grant - (1999)
- ◆ Novartis small research grant - (1998)
- ◆ Astra Merck educational grant - (1998)

## LEADERSHIP AND OTHER TRAINING

- ◆ ACPE Site Evaluator training - (2015)
- ◆ ACE Leadership Training for Deans and Department Chairs - (2014)
- ◆ ACE Leadership Training for Deans and Department Chairs - (2010)
- ◆ Health Systems leadership Fellowship - (1997)

## TEACHING FIELD

Biochemistry, Pharmacy, Pharmaceutics and Public Health

## FACULTY APPOINTMENTS

### Texas Southern University

- ◆ Professor - (2012 to date)
- ◆ Associate Professor of Pharmacy (with tenure) - (2002 - 2011)
- ◆ Assistant Professor of Pharmacy - (1996 - 2001)

## SCHOLARLY ACTIVITIES

### *Published Papers and Abstracts*

Fifty three (53) publications (available in full vitae upon request):

1. Osemene N. Clostridium difficile Infection (CDI): The Strain on Health Resources. 2015-2017. [www.powerpak.com](http://www.powerpak.com) UAN : 0430-000-15-049-H01-P
2. Osemene N. The Purple Book: A Compendium of Biological and Biosimilar Products. US Pharmacist 2015 (6): 1-5
3. Osemene N. Irritable Bowel Syndrome in Children and Adolescents. US Pharmacist, 2015 (5) : 46-50
4. Osemene N. The Neurologic Complications of Strokes. US Pharmacist, 2013; HS1
5. Osemene N. The Role of Pharmacist in managing antiplatelet agents. US Pharmacist. 2012;37(2)HS1-6
6. Osemene N. Neurological Complications of HIV. US Pharmacist Health Systems Edition 2012; 37(1):HS1-5.
7. Osemene N. Neurological Complications of HIV. US Pharmacist Health Systems Edition 2012;37(1):HS1-5
8. Osemene N. The Pharmacist's role in the prevention and treatment of Herpes Zoster. 2011-2013. [www.powepak.com](http://www.powepak.com) UAN:0430-0000-11-020-H01-P

9. Anadu U, Estes F, Osemene N, Poon et al. Symposium on roles of and cooperation between academia and practice based pharmacy clinicians. American Journal of Health System Pharmacy. 2010: 67;231-238.
10. Michael L. Johnson, Laura A. Petersen, Raji Sundaravaradan, Margaret M. Byrne, Jennifer C. Hasche, Nora I. Osemene, Iris I Wei, and Robert O. Morgan. The association of Medicare drug coverage with use of evidence-based medications in the VA. Annals of Pharmacotherapy 2009;43. DOI 10.1345/aph.1L606
11. Osemene N. Herpes Zoster (Shingles) and Postherpetic Neuralgia Management. U.S Pharmacist. 2009 34(5): 53-59.
12. Morgan RO, Petersen LA, Hasche JC, Davila J, Byrne MM, Osemene NI, Wei II, and Jonson ML. VA Pharmacy Use in veterans with Medicare drug coverage. Am J Manag Care. 2009;15(3):e1-e8
13. E. James Essien, M.D., Dr.P.H.; Angela. F. Meshack, Dr.P.H. , Ronald J. Peters, Dr.P.H.; G. O. Ogungbade, D.V.M., M.P.H.; and Nora I. Osemene, Pharm. D. Strategies to prevent HIV transmission among heterosexual African- American women. International Journal for Equity in Health 2005, 4:4
14. E. James Essien, M.D., Dr.P.H.; Angela. F. Meshack, Dr.P.H. , Ronald J. Peters, Dr.P.H.; G. O. Ogungbade, D.V.M., M.P.H.; and Nora I. Osemene, Pharm. D. Strategies to prevent HIV transmission among heterosexual African- American men. BMC Public Health 2005, 5:3
15. Osemene N I, Essien EJ, Egbunike IG. HIV/AIDS Behind Bars: Avenue for Culturally Sensitive Interventions. J Nat'l Med Assoc. 2001; 93 (12)
16. Egbunike IG, Otufale DC, Osemene NI. Ethnic Differences in the Prevalence and Management of Hypertension. Texas Pharmacy 2001;121: 20-23.
17. Essien EJ, Ross MW, Linares AC, Osemene NI. Perception of Reliability of HIV/AIDS Information Sources: a comparison among Whites, African Americans and Hispanics in Houston. J Nat'l Med Assoc. 2000; 92:269-274.
18. Osemene N, Essien EJ. AIDS and the Black Community: The need for accessible and adequate care. Harvard Journal of African American Public Policy 1999; 5:81-88.
19. Lecca P, Osemene N, Jackson D. Pharmaceutical Care in a culturally diverse Society. US Pharmacist 1997;22:70-86.
20. Plattenburg P, Egbunike I, Jackson D, Osemene N, "Pharmacotherapeutic Update: Schizophrenia Therapy Part Four of a four part series" Texas Pharmacy 1997;116 (June) :63-64.
21. Plattenburg P, Egbunike I, Jackson D, Osemene N, "Pharmacotherapeutic Update: Schizophrenia Therapy Part Three of a four part series" Texas Pharmacy 1997;116(May):7-8.
22. Plattenburg P, Egbunike I, Jackson D, Osemene N, "Pharmacotherapeutic Update: Schizophrenia Therapy Part Two of a four part series" Texas Pharmacy 997;116(April):8-9.
23. Osemene N, Egbunike I, Losartan: Formulary considerations. UP Pharmacist 1996;21: HS3-HS15.
24. Egbunike I, Maswoswe JJ, Plattenburg P, Osemene N, et al. Inappropriate blood level acquisition and utilization justification for a pharmacokinetic consult service. Pharmacy and Therapeutics 1996; 21(3):121-127.

### **Abstracts**

1. Vitamin Cocktail Antihypertensive drugs, penile erection, compliance, and hypertension management. **Osemene I**, Akpaffiong M. 27<sup>th</sup> International Interdisciplinary Conference on Hypertension and Related Risks Factors in Ethnic Populations. July 2012 # 12009
2. Vitamin Cocktail reduces blood pressure and increases testosterone production in rats. Bisong, D; Akpaffiong M; **Osemene, I**. 27<sup>th</sup> International Interdisciplinary Conference on Hypertension and Related Risks Factors in Ethnic Populations. July 2012# 12010
3. Assessment of community pharmacists' and pharmacy students' knowledge of herpes zoster. Luong D, **Osemene I**. ASHP MIDYEAR Clinical Meeting 2011 Poster # 276859
4. Going to the next level: empowering patients to reap the benefit of DSME. Mitchell B, **Osemene N**. ASHP MIDYEAR Clinical Meeting 2008
5. A prospective evaluation of the effectiveness of a community based Diabetes Self-Management Education program on diabetes for elderly African Americans. Lawani PE, **Osemene IN**, Wilson A, Zikarge A, ASHP Midyear Clinical Meeting 2006.

6. The Effect of Medicare Managed Care Plan Benefit Levels on Use of the VA Medical Care System. R. Morgan, D. John, J. Davila, M. Byrne, R. Sundaravaradan, I. Wei, D. Paterniti, **N. Osemene**, L. Petersen. Academy Health meeting 2005
7. Use of VA pharmacy services by Medicare enrolled veterans. D A. John, M.P.H., Jessica Davila, Ph.D., Raji Sundaravaradan, B.S., Iris I. Wei, Dr.P.H., Margaret Byrne, Ph.D., Debora A. Paterniti, Ph.D., Laura A. Petersen, M.D., M.P.H., **Nora Osemene**, Pharm.D., Robert O. Morgan, Ph.D. 133rd APHA Annual Meeting 2005.
8. Medicare+Choice enrollment and plan benefits among Black, Hispanic and White Medicare enrolled VA-using veterans in CY2000. R. Morgan, D. John, J. Davila, M. Byrne, R. Sundaravaradan, I. Wei, D. Paterniti, **N. Osemene**, L. Petersen. Academy Health meeting 2005
9. The Impact of Medicare Managed Care on use of VA Pharmacy services. Johnson M, Morgan R, **Osemene N**, Petersen L. ISPOR 8th Annual European Congress, 6-8 November 2005.
10. Access to Pharmacy Services among Medicare Enrolled Veterans. Morgan R, Wei I, John D, Davilla J, Byrne M, Paterniti D, **Osemene N**, Petersen L. Veterans Affairs HSR&D Annual Meeting 2004.
11. Evaluation of Discharge Medication for Patients with Myocardial Infarction. Bellard Tamoka, **Osemene IN**, Nguyen K. Int Pharm Abstract 2003.
12. Haija AM, Egbunike IG, **Osemene**, Dunlop D, Lewis DE, Henry V. Evaluation of the prescribing patterns and economic impact of the prevention and management of non-steroidal anti-inflammatory associated gastrointestinal adverse events. Int Pharm. Abstract 1999
13. Baik D, Egbunike I, **Osemene N**, Plattenburg P, Henry V. Evaluation of Ticlopidine and Clopidogrel therapy in a multi-institutional health care system. Int Pharm Abstract 1999.
14. Baik D, **Osemene N**, Haija A, Hays TN, Egbunike I, Assessment of Antibiotic utilization in critically ill patients. Int Pharm Abstract 1998 35 (21):2278.
15. Trahan JI, Egbunike I, Okafor IU, Pinto KM, **Osemene N**, Assessment of Losartan use and adverse events. Int Pharm Abstract 1998 35 (21):2278.
16. Okafor IU, Egbunike I, Plattenburg P, Ike E, **Osemene N**, Comparative assessment of adverse drug reactions associated with angiotensin converting enzyme inhibitors and Losartan. Int Pharm Abstract 1998 35 (21):2273.
17. Hayes, TN, **Osemene N**, Baik D, Egbunike I, Jackson D, Severe Thrombocytopenic reaction to sulfadiazine in a newly diagnosed HIV patient. Int Pharm Abstract 1998 35 (21):2271.
18. Varghese A, Okpara O, Turner P, Egbunike I, **Osemene N**, Identifying antibiotic induced diarrhea by using clostridium difficile culture report. Int Pharm Abstract 1998 35 (21):2271.
19. Dinney N, **Osemene N**, Egbunike I, Okafor IU, Annasi E and Plattenburg P, Retrospective observational study evaluating the treatment of hyperlipidemia in a multi institutional health system. Int Pharm Abstract 1998 35 (21):2263.
20. Egbunike IG, **Osemene N**, Jackson DM, Plattenburg P. Systematic approach to clinical research projects for Doctor of Pharmacy students. AACP Annual Meeting 1997; 95:77.
21. **Osemene N**, Berry M, Jackson D, Lecca P. Oral challenge: integral part of ambulatory experiential training program designed to enhance the provision of pharmaceutical care. AACP Annual Meeting 1997; 95:25.
22. Enyagberue A.D., Enigbokan MA, Egbunike IG, **Osemene N**, Ike Ethel, Mehta N. Role of Chronotherapeutics in the treatment of Hypertension. Int Pharm Abstract 1997 34 (21):2225.
23. Nguyen C, Lee L, **Osemene N**, et al. Low Dose Methotrexate induced pneumonitis in Rheumatoid Arthritis patients: Case Report and Review of Literature. Int Pharm Abstract 1997 34: (21):2208.
24. Amuneke-Otufale D.C, Egbunike IG, Plattenburg P, **Osemene N**, Enigbokan M, and Jackson DM, Evaluation of Serotonin Reuptake inhibitors in multi-institutional county hospital system. Int Pharm Abstract 1997 34 (21):2218.
25. Otufale K, **Osemene N**, et al. Evaluation of appropriateness of phenytoin serum levels in a county ambulatory care facility. Int Pharm Abstract 1996 33 (21):2236.
26. Egbunike IG, Plattenburg P, Lal L, Plattenburg JP, **Osemene N**. Evaluation of total parenteral nutrition therapy in adult patients. Int Pharm Abstract 1996 33 (21):2286

27. Agi R, Egbunike IG, Ike E, **Osemene N**, Plattenburg JP. Evaluation of the impact of unclaimed prescriptions in a county hospital district institution. *Int Pharm Abstract* 1996 33 (21):2282.
28. Pinon M, Egbunike IG, **Osemene N**, Plattenburg P. Evaluation of the use of saquinavir in an HIV ambulatory care center. *Int Pharm Abstract* 1996 33 (21):2286.
29. **Osemene N**, Guidelines for use of acid suppressants: a cost-effective method to standardize therapy. *Int Pharm Abstract* 1995
30. **Osemene N**, Egbunike I, Development and Implementation of renal dosing of antimicrobials. *Int. Pharm Abstract* 1993

## TECHNICAL REPORTS

Twenty four (24) technical reports

- ♦ ACPE Annual Report for TSU COPHS October - (2014)
- ♦ ASHP Community Pharmacy Residency self-study report - (2014)
- ♦ Accreditation reports ACPE (2002, 2006, 2011, 2014, 2015), AUPHA (2015), CoARC (2015), HIM - (2015)
- ♦ Determination of the optimum intensity of a culturally competent diabetes management education for African Americans in Harris and surrounding counties. Final Report for 1IOCMS300041/02 (PI) - (2008)

## CONFERENCE PRESENTATIONS

Delivered thirty (30) presentations

- ♦ Impact of Opioid Use Disorder Epidemic: Implication for current Nursing Practice. Texas Nurse Association District 9 Conference, June 2017.
- ♦ Opioids in the Management of Pain: Prescribing guidelines and Monitoring Program. Gulf Coast Dental Association 80<sup>th</sup> Annual Convention, June 2017.
- ♦ Vitamin Cocktail Antihypertensive Drugs, Penile Erection, Compliance, and Hypertension Management. (*Osemene I, Akpaffiong M.*) - 27<sup>th</sup> International Interdisciplinary Conference on Hypertension and Related Risks Factors in Ethnic Populations - July 2012 # 12009
- ♦ Vitamin Cocktail Reduces Blood Pressure and Increases Testosterone Production in Rats - (*Bisong, D; Akpaffiong M; Osemene I.*) - 27<sup>th</sup> International Interdisciplinary Conference on Hypertension and Related Risks Factors in Ethnic Populations. July 2012# 12010
- ♦ 14th Annual Fall Milwaukee Symposium, "An Update on the Treatment of Dermatological Conditions" October, 2011.
- ♦ Community diabetes self-management education conference September 2008.
- ♦ Determination of the optimum intensity of a culturally competent community based diabetes self-management education for African Americans in Harris and surrounding counties. Historically Black Colleges and Universities Research Network Conference November 2006.
- ♦ Implementing diabetes outreach program in the community. The Legislative Conference on Diabetes 2006.
- ♦ Preventive Healthcare: Belief and Attitudes among African American Women. 2004 Health Disparities, Education, Awareness, Research & Training Consortium
- ♦ A Review of the Pharmacological Agents for the management of Hyperlipidemia. Tall Pine Dietetic Association Annual Seminar. 2000
- ♦ CE: Becoming an effective preceptor TSU annual Preceptor Conference 1999.
- ♦ CE: Management of Hyperlipidemia in a tertiary Health Care System. El Paso. Pharmaceutical Association Conference and CE 1998.
- ♦ Acute coronary syndrome and the use of aggrastat : Merck Sales Representatives 1998
- ♦ CE: Hypertension and Hyperlipidemia: Management and Pharmacoeconomic Considerations 1996: Houston area Pharmacists and Nurses.
- ♦ CE: Basic Pharmacokinetics Workshop for Pharmacists: National Pharmaceutical Association 1996 Convention
- ♦ The role of medication use indicator in pharmaceutical care practice: LBJGH Pharmacists 1996
- ♦ "Interpretation of Laboratory values" LBJGH Pharmacists 1996

- ◆ “Adverse Drug reaction reporting”. HCHD/LBJGH Nurses 1995, 1996
- ◆ Hypertension therapy evolution” UT Resident Physicians 1994,1995,1996
- ◆ “Pharmaceutical Care in the ambulatory setting”: HCHD Pharmacy managers 1994
- ◆ “Implementation of warfarin anticoagulation service”: Hermann Pharmacists 1994
- ◆ Drug Induced Hypersensitive Reaction - Stephen Johnson Syndrome”: Hermann Hospital Burn Unit Clinicians 1994
- ◆ “Appropriate Use of bronchodilator metered dose inhalers” Hermann Hospital Family Practice physicians 1994.
- ◆ "Pain pharmacology": Hermann Hospital Pain Clinic Physicians 1994.
- ◆ "The Mechanism of Cyclosporine Induced Hypertension", Hermann Hospital Transplant Clinic Nurse Coordinators 1994.
- ◆ "The Mechanism of Action of Antihypertensive", Hermann Hospital Transplant Clinic Nurse Coordinators 1994
- ◆ CE: Renal Dosing in Hospitalized patients: NPHA 1997 Convention
- ◆ Compliance : A valuable pharmaceutical service” HCHD Community Program physicians, nurses and pharmacists 1995

## **SERVICE**

### ***Editorial boards***

- ◆ Medicine
- ◆ Medical Care
- ◆ Journal of General Internal Medicine
- ◆ Formulary
- ◆ International Journal of Equity in Health Care
- ◆ American Public Health Association
- ◆ Journal of the National Medical Association
- ◆ National Institute for Mental Health (NIMH) Scientific Review Group 2001
- ◆ Texas Pharmacy

### ***Texas Southern University/ Community***

Over fifteen committees’ affiliations

## **AWARDS AND PROFESSIONAL AFFILIATIONS**

- ◆ Medical Care (Top 5% reviewer 2010)
- ◆ American Association of Colleges of Pharmacy Teacher of the Year 2000
- ◆ American Society of Health System Pharmacist
- ◆ American Society of Hypertension
- ◆ American Association of Colleges of Pharmacy
- ◆ Rho Chi Pharmaceutical Honor Society
- ◆ National Alpha Delta Kappa Scholar

**ADDRESS:**

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Houston, TX 77004  
Phone: 713-313 4258  
713-313 4341 (Direct)  
Fax: 713-313 4342  
E-mail: Oyekan\_AO@TSU.EDU

**EDUCATION (with degrees earned and dates)**

1983-1986 King's College, University of London, England  
Doctor of Philosophy (PhD) Pharmacology  
1973-1979 University of Ibadan (formerly University College, London), Nigeria  
Doctor of Veterinary Medicine (Pass with distinction)

**SPECIAL TRAINING PROGRAMS**

1986 Postdoctoral training in Cardiovascular Medicine/Pharmacology  
King's College, University of London, England with Professor Clive Page and  
Dr Jack Botting  
1989-1992 Postdoctoral training in Hypertension/Cardiovascular Medicine  
New York Medical College/Westchester Medical Center, with Dr John C.  
McGiff, Lifetime Achievement Awardee of the American Heart Association  
1994 Fellowship training in Cardiovascular Medicine  
St Bartholomew's Hospital, William Harvey Research Institute with Sir John  
Vane, the 1982 Nobel Laureate in Medicine and Physiology

**EMPLOYMENT HISTORY:**

2010-2014 Associate Provost/Associate Vice President for Research  
2010- Director, Center for Health Disparities Research in HIV and Cardiovascular  
Diseases, Texas Southern University, Houston, TX  
2002- Professor and Director, Center for Cardiovascular Diseases, Texas  
Southern University, Houston, TX  
1999-2002 Associate Professor and Director, Center for Cardiovascular Diseases, Texas  
Southern University, Houston, TX (*Same functions as above*)  
1999-date Adjunct Associate Professor of Medicine, Department of Medicine, Baylor  
College of Medicine, Houston, TX  
1999-Date Graduate faculty of the Cardiovascular Sciences Program of the Department of  
Medicine, Baylor College of Medicine, Houston, TX  
1998-1999 Associate Professor of Pharmacology, New York Medical College, Valhalla,  
1995-1998 Assistant Professor of Pharmacology, New York Medical College, Valhalla, NY  
1992-1995 Senior Lecturer in Pharmacology and Veterinary Toxicology, Faculty of  
Medicine, University of West Indies, Trinidad and Tobago, West Indies  
1988-1992 Senior Lecturer in Pharmacology, College of Medicine of the University of  
Lagos, Nigeria  
1983-1986 Research Associate in Pharmacology, King's College of the University of  
London, England

1980-1988 Research Fellow/Lecturer in Pharmacology, College of Medicine of the University of Lagos, Nigeria

**ACADEMIC DISTINCTIONS:**

1998 Fellow, Council on High Blood Pressure Research of the American Heart Association  
1994 Rhodes Trust Fellowship/Scholarship, United Kingdom  
1990-1992 Research Fellow of the American Heart Association  
1989 Visiting International Fellowship of Corpus Christi College, Cambridge University, U.K. (not utilized)  
1988 Fogarty International Fellowship, N.I.H.  
1986 Postdoctoral Fellowship, King's College, University of London  
1983-1986 Commonwealth Medical Fellowship, British Council, United Kingdom  
1974-1979 National Academic Scholar, Federal Government of Nigeria

**CONSULTANT APPOINTMENTS:**

1999-2001 N.I.H. General Medicine B Study Section  
2002-2010 N.I.H. Hypertension/Microcirculation Study Section  
2007-present N.I.H Special Emphasis Panel for Mentored Career Award (RFA-HL-05-015)  
2008-present N.I.H. Special Emphasis Panel for Mentored Career Award  
2008- N.I.H. Special Emphasis Panel – Physiology and Pathobiology of Cardiovascular & Respiratory Systems

**AWARDS:**

1999-2013 Research Scientist Award by the National Institutes of Health (NIH)  
2000-2004 Established Investigator of the American Heart Association  
1994 Rhodes Trust Award to the Laboratory of Sir John Vane, the 1982 Nobel Laureate of Physiology and Medicine  
1990-92 American heart Association Fellow  
1990 Young Investigator Award of the Eastern Hypertension Society, New York

***Awards to investigators under the tutelage of Dr Oyekan***

- Young Investigator Travel Award (American Physiological Society; Renal Section, 2001)
- Caroline tum Suden Professional Opportunity Award (American Physiological Society, 2002)
- New Investigator Award (High Blood Pressure Council, 2003)
- Young Investigator Award (International Society of Hypertension, 2006)
- Young Investigator Award (International Symposium on Kidney and Hypertension, 2006)
- Young Investigator Award of the Eastern Hypertension Society (1999)
- Finalist Aventis Pharma Excellence in Renal Research Award (Renal Section, American Physiological Society, 2000)
- Young Investigator Travel Award (Renal Section, American Physiological Society, 2003);Caroline tum Suden /Frances A. Hellebrandt Professional Opportunity Award (2003)

- Max-Delbrück Fellowship, Berlin, Germany (2003).
- Caroline tum Suden /Frances A. Hellebrandt Professional Opportunity Award (2005)

#### **SPONSORED RESEARCH PROGRAMS:**

- 1989-1990 John Fogarty Visiting International fellowship (\$35,000); Agency - National Institutes of Health
- 1990-1992 Fellowship of the American Heart Association (New York State Affiliate) ***Mechanisms of arachidonate-induced vasodilation in the rat*** (\$60,000)
- 1997-2000 Research grant (1RO3DK53553) (\$100,000); Agency - National Institutes of Health. ***Role of 20-HETE in nitric oxide-mediated regulation of renal function in rats*** [Relinquished in 1998]
- 1998-2000 Grant-In-Aid (AHA9750303N) (\$165,000) Agency -American Heart Association (National) ***Interaction between nitric oxide and 20-HETE in the regulation of blood pressure***
- 1998-2005 Agency - National Institutes of Health (1RO1HL/DK59884-01) (\$1,002,988) ***Role of 20-HETE in Nitric oxide-mediated regulation of Renal Function in rats***
- 1999-2006 HBCU Research Scientist Award (HL03674) (\$3.0 m); Agency - National Institutes of Health
- 2000-2003 Established Investigator Award (0040119N) (\$300,000); Agency -American Heart Association (National) ***Interactions of nitric oxide and epoxygenases on renal function***
- 2006-2012 Research Scientist Award (2 R25 HL003674-08) (\$2.3 m); **Center for Health Disparities Research in Cardiovascular Diseases** Agency - National Institutes of Health
- 2008-2012 Agency - National Institutes of Health (1RO1HL68607-07) (\$260,000 per year) **Role of uric acid in cardiovascular and renal diseases** (P.I. – Robert Johnson; Co-P.I. – Oyekan)
- 2011- 2014 Agency – National Aeronautical Space Agency (NASA) NNX10AQ16A \$1 million/year - **Center for Bionanotechnology and Environmental Research** Role- PI
- 2011-2015 Agency - National Institutes of Health (P30 HL107272) **Center for Health Disparities Research in Cardiovascular Diseases and HIV** (\$204,000/year) Role- PI
- 2014-2017 Agency – National Institutes of Health (5G12MD007605) **Center for Excellence in Biomedical and Health Research** (Total = \$3.9m) Role - PI

#### **ADMINISTRATIVE/COMMITTEE APPOINTMENTS:**

- 2010-2014 Associate Provost/Associate Vice President for Research
- 1999-Present Director, Center for Cardiovascular Diseases, College of Pharmacy and Health Sciences, Texas Southern University, Houston, Texas
- 2008 Chair, Search Committee, Associate Dean for Academic Affairs, Texas Southern University, Houston, Texas
- 2005-2011 Secretary, Association of African Biomedical Scientists, Inc.

- 2001-2005 Vice President, Association of African Biomedical Scientists, Inc.  
 2002- Chairman, Graduate Education and Research Committee, College of Pharmacy and Health Sciences, Texas Southern University  
 2003- Member, Graduate Council, Texas Southern University  
 2003-2005 Member, Faculty Senate, Texas Southern University, Houston, TX  
 1994-1995 Member, Publicity Committee of the Faculty of Medical Sciences, University of West Indies, Trinidad and Tobago, West Indies  
 1992-1995 Member, Board of Studies of the Faculty of Medicine of the University of West Indies, Trinidad and Tobago, West Indies

**MEMBERSHIP OF PROFESSIONAL SOCIETIES:**

- 2001- Association of African Biomedical Scientists  
 2001- International Society for Hypertension in Blacks (ISHIB)  
 1999- American Physiological Society  
 1999- High Blood Pressure Council of the American Heart Association  
 1997- American Society for Hypertension  
 1995- The New York Academy of Sciences  
 1980- West African Society for Pharmacology  
 1985-1993 Institute of Biology, U.K.

**INVITED LECTURES (Selected):**

- 2014 Keynote Speaker – Nigerian Physiological Society/International Union of Physiological Society (IUPS) Workshop, Sheraton Hotel, Lagos (October 21-24)  
**Translational Research in a Research-Challenged Environment. How Feasible?**
- 2013 The 30<sup>th</sup> Daniel T. Rolfe Scholars Memorial Heritage Lecture – Meharry Medical College, Nashville, Tennessee – **Nuclear Receptors in the kidney and the Cardiovascular System**
- 2013 Annual Meeting of the American Society for Nephrology, Atlanta, Georgia (November 3-7, 2014) - **Nuclear Receptors in the kidney and the Cardiovascular System**
- 2012 Keynote Speaker – Tennessee Physiological Society – **Regulation of PPAR $\alpha$  and hypoxia inducible factor on renal function and blood pressure**
- 2010 **Interactions of PPAR $\alpha$  and hypoxia inducible factor in the regulation of renal function and blood pressure** – Mexico Physiological Society
- 2009 **Transcriptional regulation of renal function and blood pressure** – Department of Physiology and Institute of Cardiovascular Sciences, Moorehouse School of Medicine, Atlanta, Georgia (February 2009)
- 2008 **Role of PPAR $\alpha$  in the regulation of renal function and blood pressure** – Department of Molecular Pharmacology, Howard University, Washington DC (Feb 2008)
- 2007 **PPAR $\alpha$  in the regulation of blood pressure** – Department of Physiology and Biophysics, University of Louisville, KY (Sept 2007)
- 2007 **Transcriptional regulation of renal function and blood pressure** - Institute of Cardiovascular Medicine, University of Ann Arbor, Michigan

- 2006 **Role of PPAR $\alpha$  in the regulation of renal function and blood pressure** – Vascular Biology Center, Medical College of Georgia, Augusta, Georgia
- 2004 **Interactions of PPAR $\alpha$  and nitric oxide in the regulation of renal function and blood pressure** – Department of Physiology, Tulane Medical School, New Orleans
- 2003 **New User Perspective: using Telemetry successfully in rodent models of blood pressure regulation** – 1<sup>st</sup> Southwest Regional Workshop on Telemetry in the Biomedical Sciences – Baylor College of Medicine, Houston, TX
- 2002 **Interactions of Nitric oxide and cytochrome P450-derived eicosanoids and regulation of blood pressure** – University of Houston, Institute of Cardiovascular Sciences

### **PUBLICATIONS (Selected out of 102)**

- Ozurumba E, Mathew O, Ranganna K, Choi M, **Oyekan AO** Regulation of Hypoxia Inducible Factor/prolyl hydroxylase binding domain proteins 1 by PPAR $\alpha$  and high salt diet. *J Basic Clin Physiol Pharmacol* (In Press)
- Choi M, **Oyekan AO** Prolyl hydroxyl Binding Protein (PHD) and its Linkage to Changes in MyD88/p65 pathway in renal injury induced by nitric oxide deficiency and high salt diet. *J Pharmacol Clin Res* 3 (2):001-08 (2017) [MS.ID: 555608. DOI: 10.19080/JPCR.2017.03.555608]
- Reem Al-Shaman, **Oyekan AO** Role of Mechanistic Target of Rapamycin (mTOR) in renal function and ischemia-reperfusion induced kidney injury. *Clin Exp Physiol Pharmacol* 43(11):1087-1096 (2016). doi: 10.1111/1440-1681.12648
- Dallatu MK, Nwokocha E, Choi M, Newaz M, Garcia G, Truong L, **Oyekan AO**. Hypoxia-inducible factor (HIF) prolyl hydroxylation pathway in hypertension and renal end organ damage in DOCA/salt hypertension in the rat. *J Hypertens* 3: 184 (2014).
- Ighodaro I, Omogbai EK, **Oyekan AO** Role of GLUT4 on angiotensin 2-induced systemic and renal hemodynamics. *J Exp Pharmacol*, 5: 1-13 (2013)
- Adedapo A, **Oyekan A**. Effects of fenofibrate, a PPAR- $\alpha$  ligand, on the hemodynamics of glycerol-induced renal failure in rats. *Hum Exp Toxicol*. 2012 Aug 2. [Epub ahead of print]
- Yakubu MA, Sofola OA, Igbo I, **Oyekan AO**. Impaired endothelium-dependent and -independent relaxation of aorta from diabetic rats. *Bratisl Lek Listy*.2012;113(2):59-63
- Oyekan A** PPARs and their effects on the cardiovascular system. *Clin Exp Hypert* 1-7, 2011.
- Fidelis P, Wilson L, Thomas K, Villalobos M, **Oyekan AO** Renal function and vasomotor activity in mice lacking the Cyp4a14 gene. *Exp Biol Med*, 235(11):1365-74, 2010
- Yakubu MA, Nsaif RH, **Oyekan AO** Regulation of cerebrovascular endothelial peroxisome proliferator activated receptor alpha expression and nitric oxide production by clofibrate. *Bratisl Lek Listy*, 111: 258-264, 2010.
- Newaz M, Yousefipour Z, **Oyekan A** Natriuretic and renoprotective effect of chronic oral neutral endopeptidase inhibition in acute renal failure *Ren Fail*,32:384-90, 2010.
- Yousefipour Z, **Oyekan A**, Newaz M. Interaction of oxidative stress, nitric oxide and peroxisome proliferator activated receptor  $\gamma$  in acute renal failure. *Pharmacol Ther* 125:436-45, 2010.

13. Zivar Yousefipour, **Adebayo Oyekan**, and Mohammad Newaz Role of G-protein coupled receptor kinase-2 (GRK2) in PPAR $\gamma$ -mediated modulation of blood pressure and renal vascular reactivity in SHR. *Am J Neph* 2009; 30:201-208.
14. **Oyekan AO** Peroxisome proliferator activated receptors – The new frontiers in the treatment of cardiovascular diseases – (Editorial article) *Trop J Pharm Res* 8: 101-3, 2009.
15. Banks T, Hussain T, and **Oyekan AO** PPAR $\alpha$  activation attenuated AT $_1$ - but enhanced AT $_2$ -mediated hemodynamic effects to angiotensin II in the rat. *J Hypert.* 26: 468-77, 2008.
16. Obih P and **Oyekan AO** Regulation of blood pressure, natriuresis and renal thiazide/amiloride sensitivity in PPAR $\alpha$  null mice. *Blood Pressure* 17: 55-63, 2008.
17. Yousefipour Z, Hercule H, **Oyekan AO** Newaz MA Antioxidant U74389G improves glycerol-induced acute renal failure without affecting PPAR $\gamma$  gene. *Ren Fail* 2007; 29(7)
18. Yousefipour Z, Hercule C, Truong L, **Oyekan AO**, Newaz MA Ciglitazone, a PPAR $\gamma$  Inducer, ameliorates renal pre-glomerular production and activity of Angiotensin II and TxA $_2$  in glycerol-induced acute renal failure. *J Pharmacol Exp Ther.* 2007.322: 461-8.
19. Yakubu MA, Nsaif R, **Oyekan AO** PPAR $\alpha$  activation-mediated regulation of ET-1 production via nitric oxide and protein kinase C signaling pathways in piglet cerebral microvascular endothelial cell culture. *J Pharmacol Exp Ther* 2007, 320(2):774-81.
20. Mohammad A. Newaz, Zivar Yousefipour, and **Oyekan A.** Oxidative-stress associated vascular aging is not NAD(P)H oxidase- but xanthine oxidase-dependent. *J Cardiovasc Pharmacol* 48(3):88-94, 2006
21. Williams J, Bogwu J, and **Oyekan A.** The role of RhoA/Rho-kinase signaling pathway in renal vascular reactivity in eNOS null mice. *J Hypert* 24(7):1429-36, 2006 (**Manuscript attracted Editorial Comments**)
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44. Newaz MA and **Oyekan AO** Contribution of renal oxygenases to arachidonic acid-induced vasomotor responses in acute renal failure. *J Cardiovasc. Pharmacol.*, 39: 834-841, 2002.
45. Hercule HC, Lofberg E. and **Oyekan AO** (2002) Renal cytochrome P450 oxygenases and preglomerular vascular response to arachidonic acid and endothelin-1 in ischemic acute renal failure. *J. Pharmacol. Exp. Ther.*, 302: 717-724.

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51. Newaz MA and **Oyekan AO** (2001) Vascular responses to endothelin-1, angiotensin II, and U46619 in glycerol-induced acute renal failure *J Cardiovasc. Pharmacol.* 38: 569-577.
52. Ajayi AA, Hercule HC, Pamugo, J, Dixon, D, and **Oyekan AO** (2001) Interactions of renin-angiotensin system and alpha-1 adrenoceptors on renal hemodynamics in healthy and acute renal failure rats: The role of nitric oxide. *Blood Pressure* 10: 1-9.
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55. **Oyekan AO** (2000) Cytochrome P450-dependent metabolites of arachidonic acid and renal function in the rat. *Clin. Exp. Pharmacol. Physiol.*, 27: 521-526
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85. **Oyekan AO** and Botting, J.H. (1987) Inhibition of adenosine diphosphate-induced intravascular aggregation of rat platelets *in vivo* by 6-oxo prostaglandin E<sub>1</sub>. *Prostaglandins*, 34: 359-366.
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88. **Oyekan AO** and Botting, J.H. (1986) A minimally invasive technique for the study of intravascular aggregation in anesthetized rats. *J. Pharmacol. Methods*, 15: 271-27
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90. Thomas, W.O.A. and **Oyekan AO** (1984) Reverse-phase liquid chromatography of piroxicam together with other commonly prescribed nonsteroidal antiinflammatory agents. *Nig. J. Pharm.*, 16: 48-52.
91. **Oyekan AO** and Laniyonu, A.A.A. and Ashorobi, R.B. (1984) Interaction between aspirin and furosemide. *Gen. Pharmacol.*, 15: 163-166.
92. **Oyekan AO** and Laniyonu, A.A.A. (1984) Studies on the contributive effects of cow's urine concoction in rats (II) *Trop. Geogr. Med.*, 36: 201-206.
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## Enryka D. Payton

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Home: 8014 Bueller Pass Lane, Richmond, Tx 77407

Phone: (281) 788-2842 mobile Email: enryka\_payton@hotmail.com

- 08/2011-05/2015     **Doctor of Pharmacy**, Houston, Texas  
Texas Southern University College of Pharmacy & Health Sciences (TSU  
COPHS)
- 08/2002-05/2004     **Master of Science, Mathematics**, Prairie View, Texas  
Prairie View A&M University
- 06/1997-05/2001     **Bachelor of Science, Mathematics**, Prairie View, Texas  
Prairie View A&M University

### Licenses/Certifications

- 8/2015                Texas State Board of Pharmacy Registered Pharmacist
- 03/2014                Pharmacy Education Resources National Intravenous Training Program for  
Pharmacists
- 02/2014                Houston Methodist Hospital Institutional Review Board Credentialing for  
Research Involving Human Subjects
- 06/2013                American Heart Association Infant/Adult CPR & AED
- 12/2009                Texas Standard Teaching Certificate for Secondary Mathematics
- 07/2012                American Pharmacist Association (APhA) Pharmacy-Based Immunization  
Delivery
- 05/2012                Pharmacist Intern, Texas State Board of Pharmacy License

### Pharmacy Internships

- 07/2013-09/2013     **Corporate Pharmacy Intern**  
H-E-B Pharmacy, San Antonio, Texas  
Preceptor: Jose Cervantes, Pharm. D., RPh
- Interns from the previous year were able to apply for one of five available positions
  - Compounding at the company special facility
  - Maximized robotic logistics at the central fill facility
- 06/2012-7/2015     **Pharmacy Intern**  
H-E-B Pharmacy, Atascosita, Texas  
Preceptor/PIC: Perri Nelson, Pharm. D., RPh
- Provided drug information, blood pressure screenings and glycemic management for walk-ins or return customers
  - Created an “Herbal wheel” to help customers prevent drug interactions between prescription medications and herbal supplements

## Advanced Pharmacy Practice Experience

- Spring II 2015     **Houston Methodist Hospital**  
Hospital  
Preceptors: Thuy Doan, BS, RPh and Chas Gray, BS, RPh
- Spring I 2015     **Walgreens Medication Therapy Management #15515**  
Advanced Community Management  
Preceptor: Allan Garcia, BS, RPh
- Fall III 2014     **Memorial Hermann Memorial City Hospital**  
Family Medicine  
Preceptor: Maicuc Tran, Pharm. D., RPh
- Journal Clubs “Simvastatin in the Acute Respiratory Distress Syndrome” & “Fibrinolysis for Patients with Intermediate-Risk Pulmonary Embolism”
  - Point of care and insulin administration real-time analysis
- Fall II 2014     **Settegast Health Center-Harris Health System**  
Ambulatory Care  
Preceptor: Sylvester Agbahiwe, Pharm. D., RPh
- Journal Club “Bariatric Surgery versus Intensive Medical Therapy for Diabetes—3 Year Outcomes”
- Fall I 2014     **St Hope Foundation Pharmacy**  
Community  
Preceptor: Ronald Davis, BS, RPh
- Help to restructure standard operating procedures for return to stock and pharmacy workflow
  - Prepared a monograph for the newest antiviral released during the rotation and counseled the first patient to receive the medication
- Summer II 2014   **Houston Methodist Hospital**  
Research  
Preceptor: Joshua Swan, Pharm. D., BCPS
- Conducted audits for a randomized controlled trial
  - Performed an intense literature review of discriminative abilities of APACHE II and SOFA scores
- Summer I 2014   **Houston Methodist Hospital**  
Critical Care  
Preceptor: Joshua Swan, Pharm. D., BCPS
- Journal Club “Albumin Replacement in Patients with Severe Sepsis or Septic Shock”
  - Teaching: Evidence-based recommendations for intravenous fluid resuscitation in shock

## Professional Experience

- 05/2019-present Adjunct Professor  
Texas Southern University, COPHS, Houston, Texas
- 05/2017-present Staff Pharmacist  
H-E-B Grocery Company, Houston, Texas
- 09/2018-11/2018 Assistant Pharmacy Manager  
H-E-B Grocery Company, Houston, Texas
- 08/2015-05/2017 Relief Pharmacist  
H-E-B Grocery Company, Houston, Texas
- 03/2016-09/2017 Medication Therapy Management Clinical Pharmacist  
Texas Southern University COPHS, Houston, Texas
- 08/2010-05/2011 Math Department Head  
Channelview High School, Channelview, Texas
- 02/2008-05/2011 Math Teacher, Houston Area School Districts
- Channelview High School
  - Worthing High School
- 08/2008-05/2011 Adjunct Math Instructor  
Kaplan University Online, Houston, Texas
- 04/2007-02/2008 Assistant/Director of Operations  
The Princeton Review, Houston, Texas
- 05/2006-02/2008 Assistant/General Manager of Student Housing  
Campus Advantage/Centennial Commons, Joliet, Illinois
- 08/2003-05/2006 Adjunct Math Instructor  
North Harris Community College District, Houston, Texas
- 08/2001-05/2006 Math Teacher, Houston Area School Districts
- North Shore Senior High School
- Southmore Intermediate

## Research

- 09/2014      **Abstract: Discriminative ability of SOFA versus APACHE II for predicting in-hospital mortality in a surgical intensive care unit**  
*Primary Author:* Enryka Payton  
*Co-Authors:* An Le (PharmD candidate), Veronica Ajewole (PharmD candidate), Joshua Swan, Pharm. D., BCPS
- 08/2014      **Albiglutide: A once-weekly glucagon-like peptide-1 receptor agonist for the management of type 2 diabetes**  
Objective: A review of Albiglutide's pharmacology, pharmacokinetics, efficacy, safety, dosage and administration, and place in therapy  
*Coauthors:* Portia Davis, Pharm. D., Uche Ndefo, Pharm. D., and Ashley Oliver (PharmD candidate)
- 08/2013      **Understanding Insulin Reluctance in African Americans with Diabetes**  
Objective: To survey African Americans (AA) with type 2 diabetes to understand their perception on the use of insulin in order to reduce blood glucose levels and HbA1c levels  
*Mentor:* Uche Anadu Ndefo, Pharm. D., Texas Southern University

## Professional Membership

- 05/2015-present      National Pharmaceutical Association (NPhA)
- 04/2014-present      Phi Delta Chi Pharmaceutical Fraternity, Beta Omicron Chapter
- 11/2013-present      Phi Lambda Sigma Pharmacy Leadership Society-Alpha Pi Chapter
- 08/2012-05/2015      Student National Pharmacy Association (SNPhA)
- Chapter Achievement Partners Chair (2013)
  - Vice President (2012)
- 08/2012-05/2015      Student Society of Health-System Pharmacist (SSHP)
- Vice President (2013)
  - Membership Chair (2012)
- 07/2012-5/2016      American Pharmacist Association (APhA)
- 01/2012-05/2015      African Pharmacy Student Association (APSA)
- 11/1998-present      Zeta Phi Beta Sorority, Inc

## Leadership

- 09/2016-05/2018      **Assistant Parliamentarian, Zeta Phi Beta ODZ Chapter**
- 05/2016-01/2018      **Gulf Coast Blood drive coordinator, The Fort Bend Church**
- 04/2012-05/2015      **TSU Title IX Student Delegate**
- 08/2011-05/2015      **Class of 2015 Class Representative, TSU COPHS**
- 01/2012-10/2013      **Class of 2015 Newsletter Creator & Editor**

## **Volunteer activities**

Pharmacy	<b>Greater St. Matthew Church Health Fair</b> <b>Feria de Salud: American Diabetes Association</b> <b>Beat the Pack: Smoking Cessation Program</b> <b>Walgreens Flu Clinic</b> <b>Hip-Hop for HIV Awareness and Screening</b> <b>Fifth Ward Baptist Church Health Fair</b> <b>Relay for Life walk</b>
Community	<b>The Church without Walls Health Fair</b> <b>The Fort Bend Church Wellness Ministry</b> <b>Higher Dimension Church Community give-away</b> <b>March of Dimes walk</b> <b>Houston Food Bank</b> <b>Shoe drive for women's shelter</b>

## **Honors and Awards**

08/2012-05/2015	H-E-B Tuition Support recipient
10/2014	TSU APhA National Patient Counseling Competition First Place
10/2014	TSU SSHP Third Place Clinical Skills Competition
08/2014	Texas Pharmacy Association Third Place Counseling Competition
07/2014	Wilbert Bluit Endowed Scholarship
05/2014	Walgreens Diversity & Inclusion Excellence Scholarship
03/2014	Texas Pharmacy Association Local Patient Counseling Competition
10/2013	TSU SSHP First Place Clinical Skills Competition
10/2013	TSU COPHS General and Performance Scholarship
05/2013	TSU COPHS Dean's Service Award
04/2013	TSHP Research & Education Foundation Dr. Michael Pinon/TSU COPHS EPASHP Scholarship
03/2013	First Place SNPhA Clinical Skills Competition
08/2012	H-E-B Presenter of the Summer Award (Houston Area)
06/2012	TSU COPHS Leadership Scholarship

# Curriculum Vitae

## Ivy Oi-Yee Poon, Pharm.D, BCPS

### I. General Information

#### A. Education

1. Undergraduate Education
  - a. Baylor University, Waco, TX
    - i. Major: Pre-pharmacy
    - ii. 08/1995-06/1997
2. Professional Graduate Education
  - a. University of Houston, Houston, TX
    - i. Degree: Pharm.D
    - ii. 08/1997-05/2001
3. Postgraduate training
  - a. Memorial Hermann Healthcare System, Houston, TX
    - i. Pharmacy practice residency
    - ii. 07/2001-06/2002
  - b. Texas Southern University, Houston, TX
    - i. Center of Excellence in Health Disparity  
Research Faculty Fellowship
    - ii. Source of support: National Institute of  
Health
    - iii. Mentor: Ursula Braun, MD, MPH and  
Marvella Ford, PhD
    - iv. 07/2005-06/2006

#### B. Academic Appointment

1. Texas Southern University
  - a. Title: Professor in pharmacy practice
  - b. Dates of appointment: 2014- present

### **C. Honors or Awards**

1. Preceptor of the Year Award, 2004
2. Ethics, scholarship, leadership award, 2001
3. Doctor of Pharmacy, *Magna Cum Laude*, 2001
4. Rho Chi National Pharmacy Honor Society Inductee, 1999

### **D. Certification and Licensure**

1. Registered pharmacist, TX- 40147
2. Registered pharmacy preceptor
3. Board Certified Pharmacotherapy Specialist 2003-2010
4. Certified geriatrics pharmacist (CGP) 2004-2009

## **II. Research Information**

### **A. Research**

1. Title of project: Building community-engaged multidisciplinary partnerships to improve medication management in elderly patients with multiple chronic conditions.
  - a. Funding Agency: PCORI.
  - b. Request amount: \$49,890.00
  - c. Funding period: October 1, 2017- September 30, 2018
2. Title: TSU Research Centers in Minority Institutions
  - a. Funding agency: NIMHD
  - b. Type: Grant
  - c. Role: Pilot project director
  - d. Date of Funding: 9/26/2014 – present
  - e. Awarded amount: \$1,443,209
3. Title: Managing your blood pressure program (CMS-110-10-011-011525)

- a. Funding agency: Centers of Medicare and Medicaid Services
  - b. Type: Grant
  - c. Role: Principal Investigator
  - d. Date of Funding: 10/1/2010- 09/29/2012
  - e. Awarded amount: \$200,000
4. Title: Patient Centered Care Collaboration to Improve Minority Health (PCCC) initiative (HHSP233201000359G)
- a. Funding agency: US Department of Health and Human Services
  - b. Type: Subcontract
  - c. Role: co- PI
  - d. Date of Funding: 06/1/2010 – 5/31/2012
  - e. Awarded amount: \$340,000
5. Title: TSU Center for human performance and material sciences for national security
- a. Funding agency: Department of Defense
  - b. Type: Grant
  - c. Role: Project leader
  - d. Date of funding: 04/01/2008-10/30/2008
  - e. Awarded amount: \$740,640 direct cost
6. Title: TSU COPHS Center of Excellence in Health Disparities Research
- a. Funding agency: National Institute of Health
  - b. Type: Grant
  - c. Date of funding: 10/1/2004-9/30/2006
  - d. Role: Faculty fellow

- e. Awarded amount: \$1,056,780 direct cost
7. Title: Medication Management Program
- a. Funding agency: City of Houston Area Agency on Aging
  - b. Type: Yearly contract
  - c. Date of funding: 10/1/2004 – 9/30/2007.
  - d. Role: Lead pharmacist/ co-investigator
  - e. Awarded Amount:   FY 2004-05 = \$60,002.25  
                                  FY 2005-06 = \$52,927.00  
                                  FY 2006-07 = \$63,284.57

**B. National Scientific Participation:**

1. Active member of American College of Clinical Pharmacy, American Society of Health System Pharmacists, and Gulf Coast Society of Health System Pharmacists
2. Regional meeting presentation: Cardiovascular risk in post-menopausal women: a pharmacist's perspective. April 2006. Texas Society of Health-System Pharmacist Annual Meeting, Galveston.
3. Roundtable discussion facilitator: Addressing health disparities: lunch roundtables on school programs. American Association of Colleges of Pharmacy Interim Meeting, San Antonio. February 2006.

**C. Publications**

1. Full paper (peer reviewed)
  - 1) **Poon IO**, Montgomery T. (2005) Compliance of a VA pharmacy with documentation requirements for human research. Am J Health Syst Pharm, 62(5), 464.
  - 2) **Poon IO**, Braun U. (2005) High prevalence of orthostatic hypotension and its correlation with potentially causative medications among elderly veterans. J Clin Pharm Ther, 30(2), 173-8. PMID: 15811171

- 3) **Poon IO**, Chow D, Liang DX. (2006) In vitro dissolution of over-the-counter sustain release and non-flush niacin products. *Am J Health Syst Pharm*, 63:2128-34.
- 4) **Poon IO**, Lal L. (2006). An overview of orthostatic hypotension. *US Pharm*, 31(12), 32-41.
- 5) **Poon IO**, Lal L, Brown E, Braun U. (2007) The Impact of Pharmacist-Managed Oral Anticoagulation Therapy for Older Veterans. *J Clin Pharm Ther*, 32:21-29. PMID: 17286786
- 6) Salasar J, **Poon IO**, Nair M. (2007). Polypharmacy in the Elderly. *Expert Opinion in Drug Safety*, 6(6), 695-704.
- 7) Moultry A, **Poon IO**. (2008). Perceived Value of a Home-Based Medication Therapy Management Program for the Elderly. *Consult Pharm*, 23(11), 877-85.
- 8) **Poon IO**. (2008). Current Evidence on Antihypertensive Treatments and the Risks of Dementia and Cognitive Impairment. *Pharmacotherapy*, 28(3), 366-75. PMID: 18294116
- 9) Liang D, Ma J, Wei B, **Poon IO**, Bell EC, Bates TR. (2008) Determination of inositol hexanicotinate in rat plasma by high performance liquid chromatography with UV detection. *J Chromatogr B Analyt Technol Biomed Life Sci*, 863(1), 172-6.
- 10) Moultry A, **Poon IO**. (2009). The use of antidepressants in chronic pain. *US Pharm*, 34(5), 26-34.
- 11) **Poon IO**, Lal LS, Ford MA, Braun UK. (2009). Racial/Ethnic Differences in Medication Use among Veterans with Hypertension and Dementia: A National Study Cohort. *Annals of Pharmacotherapy*, 43(2), 185-93. PMID: 19193586
- 12) **Poon IO**, Lal LS, Ford MA, Braun UK. (2010). Racial/Ethnic Differences in Medication Utilization in a Cohort of Older Veterans with Dementia. *Am J Therapeutics*, 17(1), 34-41. PMID: 19535967
- 13) **Poon IO**, Etti N, Lal LS. (2010) Does the use of home blood pressure monitoring vary by race, education, and income? *Ethn Dis*, 20(1), 2-6. PMID: 20178174
- 14) Milton SG, Robinson K, Ma J, Wei B, **Poon IO**, Liang D. Biotransformation and pharmacokinetics of inositol hexanicotinate in rats. *Xenobiotica*. 2013 Sep;43(9):817-

22. doi: 10.3109/00498254.2012.762591. Epub 2013 Jan 24. PMID: 23347001
- 15) Wagle KC, Rowan PJ, **Poon IO**, Kunik ME, Taffet GE, Braun UK. Initiation of cholinesterase inhibitors in an inpatient setting. *Am J Alzheimers Dis Other Dement*. 2013 Jun;28(4):377-83. Epub 2013 May 23.
- 16) Moultry A, Pounds K, **Poon IO** (2015). Managing Medication Adherence in Elderly Hypertensive Patients through Pharmacist Home Visits. *Consult Pharm*, 30:710-719.
- 17) Skelton F, Holmes S, Grigoryan L, **Poon IO**, Trautner BW. Routine Urine Testing at the Spinal Cord Injury Annual Evaluation Leads to Unnecessary Antibiotic Use: A Pilot Study and Future Directions. *Archives of Physical Medicine and Rehabilitation*. 2018 Feb;99(2):219-225. PMID:29107038.
- 18) Skelton F, Martin LA, Evans CT, Kramer J, Grigoryan L, Richardson P, Kunik ME, **Poon IO**, Holmes SA, Trautner BW. Mixed Methods Protocol to Determine Best Practices for Management of Bacteriuria in Spinal Cord Injury. *JMIR Preprints*. 20/09/2018:12272. (Accepted for publication)

### III. Teaching Information

#### A. Didactic course work

1. Texas Southern University
  - a. Course coordinator
    - a. Phar 522: Special Population
    - b. Phar 505: Therapeutics of Agents for Cardiovascular Diseases
  - b. Team teaching
    - a. Phar 501: Therapeutics of Renal agents
    - b. Phar 504: Therapeutics of Neurologic agents
    - c. Phar 506: Therapeutics of Endocrine agents

#### B. Non-didactic teaching

1. Michael E. DeBakey VA Medical Center
  - a. Pharm 748: Geriatrics Practice Experience
  - b. Pharm 859: Research Clerkship Experience

#### **IV. Medical & Service Information**

##### **A. Patient care responsibilities**

1. Michael E. DeBakey VA Medical Center, Clinical Support Care line, Pharmacy department
  - a. Function as clinical pharmacy specialist at geriatrics clinic
  - b. Manage geriatric anticoagulation clinic
  - c. Precept pharmacy students

##### **B. Administrative assignments**

1. Texas Southern University
  - a. Chair, Pharmacy Practice P & T Committee
  - b. Member, Pharmacy Practice Curriculum Committee

#### **V. Participation in peer review activities**

**A.** Review book: Basic Clinical Pharmacokinetics, 4<sup>th</sup> edition by Winter ME

**B.** Reviewer for journals:

- a. Journal of Clinical Pharmacy and Therapeutics
- b. American Journal of Health-System Pharmacists
- c. Expert Opinion in Medication Safety

# KIMBERLY POUNDS, DR.P.H., M.P.H

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## EDUCATION

- DrPH University of Texas Health Science Center -Houston School of Public Health  
Major: Community Health, Health Education/Health Promotion  
Houston, TX  
May 2002  
Dissertation: *"The Use of Women's Health Advisors to Assist Women in Making Medical Decisions and Communicating with Doctors"*.
- MPH Tulane University School of Public Health and Tropical Medicine  
Major: Health Communication/Education  
New Orleans, LA  
December 1993
- BS Dillard University  
Major: Public Health, Community Health Education  
New Orleans, LA  
May 1992

## PROFESSIONAL EXPERIENCE

### Texas Southern University, Houston, TX

2016-Present **Assistant Professor**, College of Pharmacy and Health Sciences, Department of Pharmacy Practice and Clinical Health Sciences and Department of Pharmacy Administration and Administrative Health Sciences

2003-2015 Coordinator of Assessment and Outreach, College of Pharmacy and Health Sciences, Houston, TX

### University of Texas Health Science Center at Houston School of Public Health, Houston, TX

2001-2003 Research Associate, Center for Health Promotion and Prevention Research

2000-2001 Research Assistant, Center for Health Promotion and Prevention Research

1999-2001 Research Assistant, University of Texas Houston Health Science Center School of Public Health

### University of Texas MD Anderson Cancer Center, Houston, TX

1997-1999 Research Associate II, Gynecology Department

### Children's Hospital, New Orleans, LA

1995-1996 Health Educator, Pediatric AIDS Program

### Bayou Comprehensive Health Center, Lake Charles, LA

1994-1995 Health Education Coordinator

## TEACHING EXPERIENCE

2016-Present Assistant Professor, Texas Southern University College of Pharmacy and Health Sciences

Instructor of Record

History and Sociology of Health care (HSHA 233)  
Health Care Issues and Professionalism (HSHA 234)  
Health Disparities (HSHA 339)  
Community and Population Health (HSHA 332)  
Introduction to Public Health (PHAR 415)

2009-2016 Adjunct Faculty,

Instructor of Record

Introduction to Public Health (PHAR 415)  
Introductory Pharmacy Practice Experiences I (PHAR 416)  
Concepts of Health (HSCR 150)  
Health Care Issues and Professionalism (HSHA 234)  
Health Disparities (HPPSC 339)

Guest Instructor

Communications Lab (PHAR 411)  
Pharmacy Practice I Communications (PHAR 421)

## RESEARCH EXPERIENCE

### **#Save Your Breath.**

Goal: Facilitate adoption Texas Southern University

August 2018 – present

\$20,000- Truth Initiative

of a college-wide tobacco product policy on campus through engagement of the University stakeholders (i.e., students, faculty, staff, alumni, community supporters).

Role: Co-Investigator

Colleagues: Monica Rasmus, DrPH

### **Managing Medication Adherence in Elderly African American Hypertensive Patients in Their Home**

Texas Southern University

September 2010 – September 2012

\$200,000 grant - Centers for Medicare and Medicaid Services

Goal: Reduce health disparities in blood pressure control by improving medication adherence among the African American Medicare beneficiary population age 65 years and older through improvement of blood pressure control, medication adherence, and hypertension knowledge.

Role: Co-Investigator

Colleagues: Ivy Chui-Poon, PharmD, BCPS, Aisha Morris Moultry, PharmD

### **Patient Centered Care Collaboration to Improve Minority Health**

Texas Southern University

June 2010 – June 2012

\$300,000 subcontract - Westat, Inc. (Department of Health and Human Services – Office of Minority Health)

Goal: Measure the adoption and dissemination of comparative effectiveness research (CER) evidence aimed at racial and ethnic groups in the management of diabetes mellitus and cardiovascular disease using a home-based pharmaceutical care model.

Role: Co-Investigator

Colleagues: Ivy Chui-Poon, PharmD, BCPS, Aisha Morris Moultry, PharmD

### **African Americans' Locus of Control and Cancer, Junior Investigator Program**

Morehouse University

April 2004 - March 2005

\$50,000 grant – National Black Leadership Initiative on Cancer, Inc. (Department of Health and Human Services – Office of Minority Health)

Goal: Explore how health locus of control impacts African Americans' decision to participate in cancer prevention research trials.

Role: Principal Investigator

Colleague/Mentor: Angela Meshack, DrPH

## SCHOLARSHIP

### **PUBLICATIONS**

Pounds, K., Offurum, A., Morris-Moultry, A. "First Year Pharmacy Students as Health Coach in the Management of Hypertension." *Pharmacy Education*. 2015;15(1) 108-112.

Moultry AM, Pounds K, Poon I. "Managing medication adherence in elderly hypertensive patients through pharmacist home visits." *Consultant Pharmacist*. 2015 Dec; 30(12) 711-720 .

### **PRESENTATIONS**

Monica Rasmus, PhD, Kimberly Pounds, DrPH. "**Health Administration-Best kept Secret in Interprofessional Education (IPE)**." Association of University Programs in Health Administration, Philadelphia, Pennsylvania. June 2018. Oral Presentation.

Kimberly Pounds, DrPH. "**Effective Communication Skills**." EPICS Facilitator Training, Houston, TX. November 2012. Oral Presentation.

Ivy Chui Poon PharmD, Aisha Morris-Moultry PharmD, Kimberly Pounds DrPH, Terica Jemerson. "**Managing Medication Adherence in Elderly Hypertensive Patients through Pharmacists Home Visits**." 13<sup>th</sup> Annual HBCU and Hispanic Health Services Research Conference. Winston Salem, North Carolina. September 2012. Oral presentation.

Kimberly Pounds, DrPH. "**The Process of Establishing a Pharmacy Program's Relationship with the Community**," American Association of Colleges of Pharmacy, Arlington, VA February 2007. Oral Presentation.

**Kimberly Pounds, DrPH** and Angela Meshack, DrPH. "**African Americans Locus of Control and Cancer Research**." NCI's Second Biennial Career Development Workshop to Increase Diversity in Research Funding. Palm Desert, CA. September 2006. Poster Presentation.

**Kimberly Pounds, DrPH** and Angela Meshack, DrPH. "**African Americans' Locus of Control and Cancer Prevention Research: Ministers' Influence on Participation**." National Black Leadership Initiative on Cancer II, Ministers' Meeting. Houston, TX. June 2006. Oral Presentation.

**Kimberly Pounds, DrPH**, Sujit S. Sansgiry, PhD, Hilda Boye-Doe, RPh and Alfred McAlister, PhD "**Future Pharmacists' Intentions to Help their Patients Quit Smoking**," AACP July 2003, New Orleans, LA. Poster Presentation.

**Kimberly Pounds DrPH**, Kymberle Sterling MPH, Angela Meshack DrPH. **“No Butts About It: Components of Effective Tobacco Cessation Programs for Young Adult and Technical School Students.”** Statewide Texas Tobacco Education Program Conference July 2003, Houston, TX. Oral Presentation.

**Kimberly Pounds DRPH**, Angela Meshack DrPH, Shaohua HU MD. **“Ethnic Differences Among Adult Smokers in Exposure to Antitobacco Campaigns.”** National Tobacco Conference, December 2003, Boston, MA. Poster Presentation.

## SCIENTIFIC PARTICIPATION

Research Centers in Minority Institutions' Translational Research Network's Community Engagement Cluster (Co-Chair)	2012 to present
NIH Center for Scientific Review Section, Grant Reviewer	2005-2012
Centers for Disease Control Special Emphasis Panel, Grant Reviewer	2005-2011
Susan G. Komen African American Breast Cancer Disparities Roundtable Discussions (National Initiative), Facilitator	2016
Shared Learning Collaborative, Trailhead Institute	2018

## PROFESSIONAL DEVELOPMENT

- 2015 Teaching Learning Education Center's Teacher Training Program, Texas Southern University, College of Pharmacy and Health Sciences Teaching and Learning Education Center, Houston, TX
- 2014 Participation in American Public Health Association Annual Meeting, Certification of Education in Public Health series, New Orleans, LA
- 013 Team Strategies and Tools to Enhance Performance and Patient Safety Training, New Orleans, LA

## SERVICE

### COMMITTEE WORK, COLLEGE OF PHARMACY AND HEALTH SCIENCES

Curriculum Committee, 2008-present

- Developed and implemented service-learning and public health courses in curriculum
- Served as member of introductory pharmacy practice experiences subcommittee to develop IPPE courses and requirements

Interprofessional Education (IPE) Subcommittee, 2013-present

- Initiated creation of IPE committee and charge
- Developed model of interprofessional course series
- Worked with colleagues to develop introductory interprofessional communications case in pharmacy communications labs
- Serve as member of interprofessional subcommittee to plan, implement, and evaluate activities that facilitate interprofessional learning

Admissions and Academic Standards Committee, 2009-present

- Evaluate applications, including administration of applicant interviews

Assessment, Evaluation, and Improvement Committee, 2009-present

- Assist in development and implementation of college-wide system of assessment
- Participate in development of Student Success Plan
- Administer surveys to college stakeholders (i.e. students, faculty, preceptors)
- Tracked achievement of strategic initiatives

Accreditation of Colleges of Pharmacy Education Committee

- Contribute to writing of accreditation reports

Dean's Executive Council, 2003-2015

- Participate in setting College's strategic direction

Master in Public Health Task Force, Subcommittee of College-wide Curriculum Committee, 2015-present

- Initiate formation of task force
- Develop proposal and curriculum for MPH degree plan

## **COMMITTEE WORK, TEXAS SOUTHERN UNIVERSITY**

Southern Accreditation of Colleges and Schools Committee, 2010-2011

- Quality Enhancement Sub-committee member- worked alongside colleagues to create educational enhancement program for incoming freshmen.

Assessment, Evaluation, and Institutional Effectiveness Committee 2010-2012

- Contribute to development and implementation of University online system of assessment and evaluation

## Curriculum Vitae

**Name:** Kasturi Ranganna

**College and School:** College of Pharmacy and Health Sciences

**Academic position:** Associate Professor

**Secondary Appointment:** May 1996-Present, NIH/NIMHD supported RCMC Program, Activity:  
Director, Molecular Biology and Tissue culture core facility

**Department:** Pharmaceutical and Environmental Health Sciences

**Terminal degree:** PhD

**Schools attended:**

Bangalore University, Bangalore, India: 1968-1970

Bangalore University, Bangalore, India: 1970-1972

Indian Institute of Science, Bangalore, India: 1972-1978

**Degrees earned:**

B.Sc. (Honors) in Zoology, 1970

MSc. in Zoology, 1972

PhD in Biochemistry 1978

**Special Training Programs: (Training received through attending presentations, workshops and Webinars)**

1. College of Pharmacy and Health Sciences continued curricula development, 2018
2. College of Pharmacy and Health Team Center workshop, 2018
3. College of Pharmacy and Health College of Pharmacy and Health Sciences Pharm D Teaching and Learning Module Development workshops, 2017 Summer semester
4. Texas Southern University College of Pharmacy and Health Sciences Curricula-Teaching & Learning Module Development Workshop Hosted by the University of Texas at Tyler- Ben and Maytee Fisch College of Pharmacy, June 22-June 24 2016
5. Odyssey CLx Infrared Imaging system users' training, 2016
6. Workshop sponsored by RCMC supported Molecular Biology core on "Empowering protein research with ProteinSimple's cutting edge technology" conducted by ProteinSimple.com, part of the protein platforms division of Bio-Techne (NASDAQ:TECH), August 14, 2015
7. Workshop on advances in miRNA biomarker sponsored by Exiqon Diagnostics in collaboration with the University of Texas. M.D. Anderson Cancer Center, February 4, 2014

8. a. Can we trust western blots? Workshop sponsored by Bio-Rad Laboratories: In Experimental Biology meeting, April 2014
- b. Single cell western blot and stain-free total protein loading control workshop sponsored by Bio-Rad Laboratories: In Experimental Biology meeting, April 2014
9. Certificate of teaching for Health Professionals offered by TLEC and TSU Blackboard.Com (5 modules) between October and December 2014

### **Fields (s) of Interest**

- 1) **Teaching:** Pharmacology, Principles of drug action, Drug metabolism, Molecular pharmacology, Endocrinology, Pathophysiology, Cell Biology, Biochemistry, Molecular Biology, Bioethics, Pharmacogenomics, and Epigenetics.
- 2) **Research:** Vascular molecular biology, Atherogenesis, Cardiovascular disease, Non-coding RNAs [long non-coding RNAs, microRNA and short interfering RNA (siRNA)], Cell signaling, Epigenetics, Genomics, Pharmacogenomics, Gene-environmental interactions, Lipidomics, Molecular Toxicology and Health disparities.

### **Professional employment**

- 2015-Present** Associate Professor (Tenure), Department of Pharmaceutical Sciences, Texas Southern University, Houston, Texas 77004
- 2013-2015:** Associate Professor (Tenure Track), Department of Pharmaceutical Sciences, Texas Southern University, Houston, Texas 77004.
- 2010-2013** Assistant Professor (Tenure Track), Department of Pharmaceutical Sciences, Texas Southern University, Houston, Texas 77004.
- 2011-Present** Graduate Faculty, Graduate School of Texas Southern University, Houston, Texas 77004
- 2014-Present** Director, Molecular Biology Core, RCMC Program funded by NIH/NIMHD, Department of Pharmaceutical Sciences, Texas Southern University, Houston, Texas 77004.
- 2009-2013** Director, Molecular Biology Core, RCMC Program funded by NIH/NCRR (Bridge funding and No-Cost Extension), Department of Pharmaceutical Sciences, Texas Southern University, Houston, Texas 77004.
- 2004-2009** Director, Molecular Biology and Tissue Engineering Core, RCMC Program funded by NIH/NCRR, Department of Pharmaceutical Sciences, Texas Southern University, Houston, Texas 77004.
- 1999-2004** Director, Molecular Biology & Tissue Culture Core, RCMC Program funded by NIH/NCRR, Department of Pharmaceutical Sciences, Texas Southern University, Houston, Texas 77004.

- 1996-1999**     **Director, Molecular Biopharmacology Core, RCMI Program funded by NIH/NCRR,** Department of Pharmaceutical Sciences, Texas Southern University, Houston, Texas 77004.
- 1988-1996**     **Assistant Professor,** Department of Neurology, University of Texas Health Science Center at Houston, Texas 77030.
- 1984-1988**     **Instructor,** Department of Biochemistry, Baylor College of Medicine, Houston, Texas 77030.
- 1981-1984**     **NIH National Research Service Award (NRSA) Postdoctoral Fellow,** Department of Biochemistry, Baylor College of Medicine, Houston, Texas 77030.
- 1979-1981:**     **Research Associate,** Department of Biochemistry, Baylor College of Medicine, Houston, Texas 77030.
- 1978-1979:**     **Research Associate,** Laboratory of Sensory Physiology, Department of Botany, Ohio University, Athens, Ohio 45701

### **Consultancies and professional services**

#### **a. Consultant Service (from 1999 to Present):**

As the director of the RCMI Program supported Molecular biology and Tissue culture core facility funded by NIH/NCRR (1999-2013) and NIH/NIMHD (2014-2019), I provided and have been providing consultant service to several biomedical research investigators of Texas Southern University and to their Lab personnel and students, including Drs. Shivachar, Yousefipour, Milton, Hayes, Akpaffiong, Oyekan, Chelliah, and Ya Fatou from College of Pharmacy and Health Sciences; Dr. Yakubu from College of Science, Engineering and Toxicology; and Dr. Newaz from University of Chicago, in cellular and molecular biology research and technology support services since 1999 to present.

#### **Participated as a consultant in the following proposals:**

**Cerebral Microvascular Endothelin Production:** Dr. Momoh Yakubu (PI), College of Pharmacy, Texas Southern University, R25, NIH/NHLB, \$141,000.00 (9/30/02-9/29/04). Funded

**Effect of PPAR-gamma Induction on Nitric Oxide (NO) / Nitric Oxide Synthase (NOS) System:** Dr. M.A. Newaz, College of Pharmacy, Texas Southern University, American Heart Association. \$125,000.00 (07/01/03- 06/31/05). Funded

**Molecular Mechanism of Acrolein-Induced Vascular Toxicity: Role of PPAR gamma and NAD (P) H oxidase.** Zivar Yousefipour, College of Pharmacy & Health Sciences, Texas Southern University, SC3/NIH, \$453,000.00 (08/01/2013 to 07/31/2017). Funded

**Cannabinoids and endocannabinoids in astroglial glutamate homeostasis:** Dr. Shivachar (PI), College of Pharmacy, Texas Southern University, NIH /SC1 SCORE grant, \$ 1,000,000.00, 7/1/12 to 6/31/16. Received score but not funded.

**Role of hydrogen sulfide in the regulation of intraocular pressure:** Dr. Ya Fatou Njie-Mbye (PI) from College of Pharmacy, Texas Southern University and **myself as Co-Investigator** for the renewal NIH R15 grant submission to October 25, 2015 NIH submission cycle (\$442,253.93/3 years). Not funded.

**b. Professional Services:**

**1. Proposals reviewed:**

2004 Reviewed a proposal submitted for funding support from Philip Morris Research Program.

2005 Reviewed RCMI proposal of Morehouse School of Medicine, Atlanta, GA as an Ad hoc member of NIH/NCRR Site visit team (October 26 and 27, 2005)

**2. PhD thesis advising**

1999-2003 **Co-Advisor**, Graduate student Thesis entitled “Mechanism of Acrolein-Induced Vascular Toxicity” (Ms. Zivar Yousefipour from College of Pharmacy, PhD student)

2012-2017 **Advisor**, Graduate student PhD thesis entitled “Modulation of atherogenesis by an epigenetic modifier in ApoE<sup>-/-</sup> knockout mouse model” (Ms. Marian Gray from College of Pharmacy)

**3. Building, establishing and enhancing research infrastructure for Molecular and cellular biomedical research**

1988-1996 Development and establishment of the **Clayton Foundation supported (PI Dr. Frank M. Yatsu) laboratory devoted to molecular biological aspects of stroke** in the department of Neurology at the University of Texas health Science Center at Houston, Texas.

1996-1998 **Development of Molecular Biology Core Facility** at Texas Southern University supported by Research Centers in Minority Institutions Program, NIH/NCRR

- 1996-1997 **Conducted Molecular Biology Workshop** for Texas Southern University Faculty, Staff and students.
- 1996-Present **Providing technical, resource and hands-on training services** to faculty, staff and students of Texas Southern University (TSU) to carry out their research projects at cellular and molecular level, which resulted in publications, abstract presentations and grant proposals
- 1999-Present **Assisted** TSU investigators to obtain funding support from American Heart Association (Dr. Newaz), SC3/NIH (Dr. Yousefipour), NASA (Dr. Ramesh), R25/NIH (Dr. Yakubu) and seed grant (Drs. Yousefipour and Ranganna) from TSU Research Program.
- 1998-Present **Performed** Research Development activities to: enhance research capabilities of Texas Southern University investigators through organizing research workshops, research seminars and research presentations; and facilitating collaborations among research investigators.
- 1982-1996 **Trained** several research assistants, summer students and research scientists at Baylor College of Medicine and University of Texas Health Science Center at Houston, Texas.
- 1999-Present **Trained and mentored** several faculty, research scientists, research assistants, TSU summer Pharm D students, and PhD students of Pharmaceutical sciences and MS students of Environmental Toxicology Program at TSU through RCMI supported Molecular and cellular research infrastructure.
- 2013 & 2014 **Mentored** Undergraduate Research Fellows of Texas Southern University through Summer Undergraduate Research Program (URP).
- 2015 **Reviewer** for poster session material, March 2015 TSU Research Week Program

## **Organizations: memberships and offices held**

### **a. Memberships**

- 1980-Present Member, American Society for Biochemistry and Molecular Biology
- 1987-2009 Member, American Association for the advancement of Science.
- 2008-Present Member, European Atherosclerosis Society
- 2010-Present Member, American Society for Cell Biology
- 2001-2004 Chair, Radiation Safety Committee, Texas Southern University, Houston, Texas.
- 2012-Present Member, Radiation Safety Committee, Texas Southern University, Houston, Texas

2004-2010 Member, Recombinant DNA Safety Committee, Texas Southern University, Houston, Texas

**b. Journal review board member**

2015-2017 Peertechz Journal of Environmental Sciences and Toxicology

2015-2017 Peertechz Journal of Pharmaceutical Sciences and Developmental Research

**Fellowships and Honors**

**a. Fellowships**

1972-1973 University Grant Commission Junior Fellowship, Indian Institute of Science, Bangalore, India

1981-1984 Recipient of NRSA Post-Doctoral Fellowship from NIH, Baylor College of Medicine, Houston, Texas 77030

**b. Patent**

1996-2008 Received United States Patent for “Anti-proliferative effects of sodium butyrate on smooth muscle cells”. **Patent Number: US005563173A**

**Awards and Prizes**

1973-1977 Research Award, University Grant Commission, Indian Institute of Science, Bangalore, India

1977-1978 Senior Research Scientist Award, Council of Scientific and Industrial Research, Indian Institute of Science, Bangalore, India

1977-1978 Awarded Gold medal by the council of the Indian Institute of Science, Bangalore, India, in recognition of my Ph.D. thesis entitled, “Studies on Acetylcholinesterase in Peas, *Pisum sativum*”

2011 Second place award for the 2011 Research day Poster Presentation, Texas Southern University Program

**Grants**

**a. Funded grants**

1988-1995 Co-Investigator, (Principal Investigator: F.M. Yatsu), The Clayton Foundation for Research on Neurological Diseases. Funded for seven years, 1988-1996, \$5,000,000.00

1999 -2004 Director (PI of the Activity), Molecular Biopharmacology Laboratory and Tissue Culture Laboratory Core Facility component (Program Director, B.E. Hayes). Funded for 5 years by NIH/NCRR/RCMI Program, 9/1/99-8/31/04, \$892,627.00.

- 2004-2009 Director (PI of the activity), Molecular Biology and Tissue Engineering Core Facility of Institute for biomedical and Health Disparities Research (Program Director, B.E. Hayes), NIH/NCRR supported RCMI Program, 08/01/04-7/31/09, \$1,685,787.00. Funded
- 2009-2011 Director (PI of the activity), NIH Bridge funding to support the Molecular Biology core facility component of Institute for biomedical and Health Disparities Research (Program Director, D. Liang), NIH/NCRR supported RCMI Program activity \$280,000/year (Direct cost). Funded
- 2011-2013 Director (PI of the Activity), NIH No-cost extension funding to support the Molecular Biology core facility component of Institute for biomedical and Health Disparities Research (Program Director, D. Liang), NIH/NCRR/RCMI Program Activity \$182,917/year (Direct Cost). Funded
- 2013-2014 Principle Investigator, Epigenetic mechanisms as an approach to target atherosclerosis, Seed grant from Texas southern University, \$9,000.00. Funded
- 2014-2019 Director (PI of the activity), Molecular Biology Core Facility component of Center for Biomedical and Health Research Excellence (Program Director, D. Liang), NIH/NIMHD supported RCMI Program, \$842,575.00 for 5years (Direct cost), Funded

#### **b. Grants pending submission**

Principal Investigator, Epigenetics of cell proliferation. Molecular Cellular Biology (MCB) program/National Science Foundation (NSF), about \$380,000/3 years (Pending submission in January 2018)

Principal Investigator, Epigenetic Strategy for the Prevention of Atherogenesis in ApoE Knockout Mouse Model: Use of Butyrate, a Dietary Histone Deacetylase Inhibitor. SC3/NIH program, about \$450,000.00/3 years, Pending submission (January 2019)

#### **Scholarship**

##### **Peer-reviewed publications and Book Chapters**

##### **Peer-reviewed Articles**

Ozurumba E, Mathew O, **Ranganna K**, Choi M, Oyekan A: (2018) Regulation of hypoxia inducible factor/prolyl hydroxylase binding domain proteins 1 by PPAR $\alpha$  and high salt diet. J Basic Clin Physiol Pharmacol. 29, 165-173. PMID: 29500923.

Chelliah Selvam, Daniel Mutisya, Sandhya Prakash, **Kasturi Ranganna** and Ramasamy Thilagavathi: (2017) Therapeutic potential of chemically modified siRNA: Recent Trends. Chemical Biology and Drug Design. 90, 665-678. DOI: 10.1111/cbdd.12993. PMID: 28378934.

Yousefipour Z, Chug N, Marek K, Nesbary A, Mathew J, **Ranganna K**, Newaz MA: (2017) Contribution of PPAR $\gamma$  in modulation of acrolein-induced inflammatory signaling in gp91phox knock-out mice. *Biochem Cell Biol.* 95, 482-490. PMID: 28376311.

Yangxin Li, Chaoshan Han, Juanjuan Wang, Jin Zhou, Chun Liang, **Kasturi Ranganna**, Yao-hua Song: Exosomes mediate the beneficial effects of exercise. *Advances in Experimental Medicine and Biology*, In book: November, 2017; pp333-353. DOI 10.1007/978-981-10-4304-8\_18. PMID: 29098629.

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## **Book Chapters**

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**Kasturi Ranganna**, Omana P. Mathew and Shirlette G. Milton: (2014) Regulation of cellular processes by epigenetic mechanisms of butyrate. Biochemistry Research Trends Series, In Butyrate: Food Sources, Functions and Health Benefits Cong-Jun Li (Ed.), Bovine Functional Genomics Laboratory, ARS, USDA, Maryland, USA. ISBN: 978-1-63117-657-9, pp 219-232.

**Kasturi Ranganna**, Omana P. Mathew, Shirlette G. Milton and Barbara E. Hayes: (2013). MicroRNAome of Vascular Smooth Muscle Cells: Potential for MicroRNA-Based Vascular Therapies, Current Trends in Atherogenesis, Prof. Rita Rezzani (Ed.), ISBN: 978-953-51-1011-8, InTech, DOI: 10.5772/54636.  
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### **(b) Articles in preparation for submission:**

Dual Molecular Pathways implicated in butyrate inhibited vascular smooth muscle cell proliferation. In preparation for submitting to BMC Biology

Differential expression of microRNAs-related to cell cycle regulations in vascular smooth muscle cells. Will be submitted to FEBS J

Epigenetic regulation of clusterin expression in vascular smooth cells: potential role in butyrate arrested vascular smooth muscle cell proliferation. Will be submitted to Atherosclerosis

### **3) Presentations- Listed only the ones from Texas Southern University from 1996-2018**

Selvam C, Mock CD, Mathews OP. **Ranganna, K.** Discovery of Vascular Endothelial Growth Factor Receptor-2 (VEGFR-2) Inhibitors by Ligand-based Virtual High Throughput Screening. Annual Experimental Biology meeting, April 21-25, 2018, San Diego CA.

**Kasturi Ranganna**, Omana P Mathew, Shirlette Milton, Ramasamy Thilagavathi And Chelliah Selvam.. Identification of Novel Scaffold for PIM1 Kinase Inhibition by Ligand Based Virtual Screening. Annual Experimental Biology meeting, April 21-25, 2018, San Diego CA.

Theresa Brown, Mathew Joseph, **Kasturi Ranganna**, Daniel Xiao, Mohammad Newaz, Zivar Yousefipour. NO/NOS-Dependent Modulation of Inflammation in Acrolein-Induced Vascular Toxicity. Annual Experimental Biology meeting, April 21-25, 2018, San Diego CA.

Z. Yousefipour, M. Joseph; O. Odina, D. Xiao O. P. Mathew, **K. Ranganna**. Contribution of environmental pollutants to epigenetic modifications in rat vascular smooth muscle cell. Annual meeting of European Society of Hypertension, June 8-11, 2018, Barcelona, Spain.

Omana P Mathew, **Kasturi Ranganna**, Chelliah Selvam, Zivar Yousefipour. Signaling Pathways Implicated in Butyrate-Arrested Vascular Smooth Muscle Cell Proliferation. 2017 Annual Experimental Biology meeting, April 22-26, Chicago, Ile.

A. Shivachar, B. Jordon, S. Chelliah, O.P. Mathew, **K. Ranganna**. Curcuminoids suppress cell proliferation of glioblastoma by down-regulation of CXCR4 Signaling Pathway. 2017 Annual Experimental Biology meeting, April 22-26, Chicago, Ile.

M. Esmaili, O. Philips Mathew, **K. Ranganna**, M. Joseph, Z. Yousefipour. Acrolein-Induced Epigenetic Modification of Histone 3 in Rat Vascular Smooth Muscle Cells. 2017 Annual Experimental Biology meeting, April 22-26, Chicago, Ile.

Z. Yousefipour, S. Haidari, **K. Ranganna** and MA Newaz. Transcriptional interference of acrolein and its modulation by PPAR-gamma ligand, rosiglitazone. 2017, 27<sup>th</sup> European Meeting on Hypertension and Cardiovascular Protection, Milan Italy, June 16-19.

Amruthesh C. Shivachar, Joseph Ekeada Nnamdiebere, Omana P. Mathew and **Kasturi Ranganna** and Chelliah Selvam. Curcuminoid analogs, a new class of drugs for the treatment of glioblastoma multiforme. 2017 Innovations in Cancer Prevention and Research Institute Conference, Austin TX, November 13-14

Marian Gray, Abdullah Alatawi, Reem Alshaman, Zivar Yousefipour, Shirlette Milton, Selvam Chelliah and **Kasturi Ranganna**. *In vivo* evaluation of butyrate, a histone deacetylase inhibitor, effect on lipid profile of Apo E<sup>-/-</sup> Mice fed on atherogenic diet. Annual Experimental Biology Meeting, April 2-6, 2016, San Diego, CA

Yousefipour, Z, Newaz, M.A, Esmaili, M, **Ranganna, K.** Modification of histone induced by acrolein in rat vascular smooth muscle cells. 2016 Annual meeting of European Society for Hypertension, September 2016.

**Kasturi Ranganna**, Omana Mathew and Shirlette Milton: Link between antioxidant effect and anti-inflammatory response in butyrate arrested vascular smooth muscle cells (VSMC) proliferation. Experimental Biology meeting, April 26–30, 2014, San Diego, CA

**Kasturi Ranganna**, Omana Mathew and Shirlette Milton: Antiproliferative effect of butyrate involves modulation of inflammatory response via antioxidant effect in vascular smooth muscle cells (VSMC). TSU Research week April 1-7, 2014

**Kasturi Ranganna**, Omana Mathew and Shirlette Milton: Influence of butyrate, a histone deacetylase inhibitor, on expression profile of microRNAs in vascular smooth muscle cells (VSMC). Experimental Biology meeting, April 20-24, 2013, Boston MA

**Kasturi Ranganna**, Omana Mathew and Shirlette Milton: MicroRNAome of vascular smooth muscle cells: Influence of butyrate, a histone deacetylase inhibitor on expression profile of miRNAs. 13<sup>th</sup> RCMI International Health Disparities meeting, December 10-13, 2012, San Juan, Porto Rico

Omana Mathew, Shirlette Milton and **Kasturi Ranganna**. Involvement of PI3K/Akt pathway in histone deacetylase inhibitors arrested vascular smooth muscle proliferation. 13<sup>th</sup> RCMI International Health Disparities meeting, December 10-13, 2012, San Juan, Porto Rico

Shirlette Milton, Omana Mathew and **Kasturi Ranganna**: Molecular analysis of differential effects of butyrate and trichostatin on vascular smooth muscle cells. 13<sup>th</sup> RCMI International Health Disparities meeting, December 10-13, 2012, San Juan, Porto Rico

**Kasturi Ranganna**, Shirlette G. Milton, Omana P. Mathew and Frank M. Yatsu, 2012. Influence of Epigenetic Histone Modifiers on PTEN/PI3K/Akt Signaling in Vascular Smooth Muscle Cells (VSMC) FASEB meeting, April 21-25, 2012, San Diego CA

Yasmeen Rizvi, **Ranganna Kasturi**, Omana Mathew, Choi Myung and Adebayo Oyekan. Interdependence of PPAR $\alpha$ /cytochrome P-450 epoxygenase and adenosine receptors in hypoxia-induced angiogenesis. Experimental Biology meeting, April 21-25, 2012, San Diego, CA

EC. Ozurumba, O. Mathew, **K. Ranganna** and A. Oyekan: The role of peroxisome proliferator-activated receptor alpha (PPAR $\alpha$ ) on renal prolyl hydroxylase domain-containing proteins (PHD) in response to high salt diet. Experimental Biology meeting, April 9-13, 2011, Washington DC.

EC. Ozurumba, A. Oyekan and **K. Ranganna**: The effect of high salt diet in the regulation of prolyl hydroxylase domain-containing protein (PHD1) and associated genes in the mouse kidney. Experimental Biology meeting, April 9-13, 2011, Washington DC.

**Kasturi Ranganna**, Omana P. Mathew, Frank M. Yatsu, 2011 Impact of Epigenetic Histone Modifiers on Histone Deacetylases (HDACs) and Histone Modifications in Vascular Smooth Muscle Cells (VSMC). TSU Research week April 5-8, 2011

Omana P. Mathew, **Kasturi Ranganna**, Frank M. Yatsu. Epigenetic Histone Modifiers upregulate clusterin/apolipoprotein J expression in vascular smooth muscle cells (VSMC) TSU Research week April 5-8, 2011

**K. Ranganna**, OP. Mathew and FM. Yatsu: Upregulation of clusterin/apolipoprotein J by butyrate and trichostatin A in Vascular Smooth Muscle Cells. 50<sup>th</sup> Annual meeting of American Society for Cell Biology. 11-15 December, 2010 Philadelphia, PA.

**K. Ranganna**, OP. Mathew and FM. Yatsu: Clusterin/Apolipoprotein J expression in vascular smooth muscle cells (VSMC): Upregulation by epigenetic histone modifiers. 12<sup>th</sup> RCM International symposium on health disparities. 6-9 December, 2010 Nashville, TN.

O.P. Mathew, **K. Ranganna** and F.M. Yatsu: Histone epigenetic modifiers modulate class I and II HDACs in vascular smooth muscle cells (VSMC). 12<sup>th</sup> RCM International symposium on health disparities. 6-9 December, 2010 Nashville, TN.

F.M. Yatsu, **K. Ranganna** and OP. Mathew: Modulation of histone deacetylases (HDACs) by histone deacetylase inhibitors (HDACIs), butyrate and trichostatin A (TSA) in vascular smooth muscle cells (VSMC): Relevance to vascular and neuronal dysfunction. 135<sup>th</sup> Annual Meeting of American Neurological Association in San Francisco, CA, September 12-15, 2010

**K. Ranganna** and FM Yatsu. Inhibition of platelet-derived growth factor-BB-induced expression of glyceraldehyde-3-phosphate dehydrogenase by sodium butyrate in rat vascular smooth muscle cells. 17<sup>th</sup> International Congress of Biochemistry and Molecular Biology, August 24 -28, 1997, San Francisco, CA.

FM Yatsu and **K. Ranganna**. Vascular smooth muscle cell proliferation: Regulation to control atherosclerosis. The 1997 Salzburg International Conference of Cerebral Vascular Disease, September 15, 1997, Buenos Aires, Argentina.

**K. Ranganna** and F.M. Yatsu. Butyrate inhibits serum-induced rat vascular smooth cell proliferation by inhibiting proliferating cell nuclear antigen (PCNA) protein. The 1998 Annual Meeting of the American Society for Biochemistry and Molecular Biology, May 16-20, 1998, Washington DC.

F.M. Yatsu and **K. Ranganna**. Stroke prevention: Inhibition of smooth muscle cell (SMC) proliferation, a key element of atherosclerosis, by suppressing proliferating cell nuclear antigen (PCNA) with butyrate. The first annual meeting of Neurotherapeutics in the 21<sup>st</sup> century, March 18-20, 1999, Washington DC

F.M. Yatsu and **K. Ranganna**. Gene expression alteration in vascular smooth muscle cell proliferation, a key to atherosclerosis and stroke prevention. 4<sup>th</sup> World Stroke Congress, November, 2000, Melbourne, Australia.

F.M. Yatsu and **K. Ranganna**. cDNA expression changes in smooth muscle cell proliferation, a clue to atherothrombotic strokes. World Federation of Neurology, 21<sup>st</sup> Salzburg Conference on Cerebrovascular Disease. December, 2000, Bangkok, Thailand.

**K. Ranganna**, B.E. Hayes, S.G. Milton, Z. Yousefipour, F.M. Yatsu. Acrolein activates Mitogen activated protein kinase (MAPK) signal transduction pathways in rat vascular smooth muscle

cells (SMCs). Annual meeting of American Society for Biochemistry and Molecular Biology, June, 2000, Boston, Massachusetts.

**K. Ranganna**, B.E. Hayes, S.G. Milton, Z. Yousefipour, F.M. Yatsu. Acrolein activates Mitogen activated protein kinase (MAPK) signal transduction pathways in rat vascular smooth muscle cells. March, 2000, Texas Southern University Research Day, Houston, TX

**K. Ranganna** and S.G. Milton Molecular Biology and Tissue Culture Laboratory (MBL/TCL) Core Facility. March, 2001, Texas Southern University Research Day, Houston, TX

**K. Ranganna**, F.M. Yatsu, B.E. Hayes, S.G. Milton, Z. Yousefipour. Differential gene expression profile of Butyrate-inhibited vascular smooth muscle cell proliferation. Experimental Biology, March-April, 2001, Orlando Florida.

**K. Ranganna**, B.E. Hayes, S.G. Milton, Z. Yousefipour, F.M. Yatsu. Reversal of Acrolein-induced activation of Mitogen-activated protein kinase (MAPK) signals transduction pathways by N-acetyl-L-cysteine in rat vascular smooth muscle cells. Experimental Biology, Orlando Florida, March-April, 2001

B.L. Wilson, **K. Ranganna** and B.E. Hayes. Molecular Biology and Tissue Culture Core Capabilities. NASA Ames Research Center SDB Forum, October 15, 2001, Moffett Field, CA.

**K. Ranganna**, Z. Yousefipour, F.M. Yatsu, B.E. Hayes, S.G. Milton. Involvement of Glutathione-S-Transferases and Glutathione Peroxidase in Butyrate-Inhibited Vascular Smooth Muscle Cell Proliferation (VSMC). The 2002 FASEB Meeting, April 20-24, 2002, New Orleans, Louisiana.

**K. Ranganna**, Z. Yousefipour, A. Newaz, F.M. Yatsu, S.G. Milton and B.E. Hayes. Mechanism of Acrolein-Induced Activation of Mitogen-Activated Protein kinases in Rat Vascular Smooth Muscle Cells. The 2002 RCMI symposium and Workshop, April 24-27, 2002, Jackson, Mississippi.

Z. Yousefipour, **K. Ranganna**, B.E. Hayes, A. Oyekan and S.G. Milton. Vascular effects of Acrolein in Rats. The 2002 FASEB Meeting, April 20-24, 2002, New Orleans, Louisiana.

Mohammad A. Newaz, **K. Ranganna** and A.O. Oyekan. Interaction of Nitric oxide and PPAR $\alpha$  on Renal Tubular Na<sup>+</sup> transport in Rats. 56<sup>th</sup> Annual Fall Conference and Scientific Sessions of the Council for High Blood Pressure Research in Association with the Council on Kidney in Cardiovascular Disease. September 25-28, 2002, Orlando, FL.

**K. Ranganna**, Z. Yousefipour, F.M. Yatsu, S.G. and B.E. Hayes. Butyrate-Inhibited vascular Smooth Muscle Cell Proliferation Involves Differential Expression of Cell Proliferation and Differentiation-related Genes. Eighth RCMI International Symposium on Health Disparities, December 8-11, 2002, Honolulu, Hawaii.

S.G. Milton, Z. Yousefipour, **K. Ranganna**, M.A. Newaz, B.E. Hayes and A. Oyekan. Acrolein effects on vascular responses. Eighth RCMI International Symposium on Health Disparities, December 8-11, 2002, Honolulu, Hawaii.

F.M. Yatsu and **K. Ranganna**. Regulation of Vascular Smooth Muscle Cell Proliferation, a key element of Atherosclerosis, Investigated by cDNA Microarray. 6<sup>th</sup> International Conference on the Stroke and 3<sup>rd</sup> Conference of the Mediterranean Stroke Society. March 12-15, 2003, Monte Carlo, Monaco.

Z. Yousefipour, **K. Ranganna**, M. A. Newaz, S.G. Milton and B.E. Hayes. Acrolein Effect on Antioxidant System of Rat. The 2003 Texas Southern University Research Day, April 3, 2003, Houston, TX

Z. Yousefipour, **K. Ranganna**, M. A. Newaz, S.G. Milton and B.E. Hayes. Role of Nitric Oxide in Acrolein-Induced Vascular Responses. The 2003 FASEB Meeting, April 11-15, 2003, San Diego, CA.

M. A. Newaz, **K. Ranganna** and A.O. Oyekan. The Role of Nitric Oxide and PPAR $\alpha$  on Proximal tubular Na<sup>+</sup> Transport in the Rat. The 2003 FASEB Meeting, April 11-15, 2003, San Diego, CA.

F.M. Yatsu and **K. Ranganna**. Vascular smooth muscle cell (VSMC) proliferation, a key element of atherogenesis, is impaired by butyrate: molecular mechanisms investigated by cDNA microarray. The 4<sup>th</sup> Annual Conference on Arteriosclerosis, Thrombosis and Vascular Biology. May 8-10, 2003, Washington, DC.

Mohammad A. Newaz, **K. Ranganna**, **A.O. Oyekan**. PPAR $\alpha$  Activation and its effect on Nitric Oxide production. 57<sup>th</sup> Annual Fall Conference and Scientific Sessions of the Council for High Blood Pressure Research in Association with the Council on Kidney in Cardiovascular Disease. September 23-26, 2003, Omni Shoreham, Washington DC,

**K. Ranganna**, Z. Yousefipour, O.P. Mathew, F.M. Yatsu, S.G. Milton and B.E. Hayes. Involvement of Anti-Oxidant System in the Arrest of Vascular Smooth Muscle Cell Proliferation by Butyrate. American Society for Biochemistry and Molecular Biology annual Meeting and 8<sup>th</sup> IUBMB Conference. June 12-16, 2004, Boston, MA.

**K. Ranganna**, Z. Yousefipour, O.P. Mathew, F.M. Yatsu, S.G. Milton and B.E. Hayes. Activation of Mitogen- Activated Protein Kinases (MAPKs) by Acrolein is mediated by Redox-Sensitive Mechanism. 9<sup>th</sup> RCMI International Symposium on Health Disparities, December 8-11, 2004, Baltimore, MD

**K. Ranganna** and O.P. Mathew Modulation of Acrolein-induced vascular smooth muscle cell dysfunction by ascorbic acid and  $\gamma$ -Tocopherol. 9<sup>th</sup> RCMI International Symposium on Health Disparities, December 8-11, 2004, Baltimore, MD

**K. Ranganna**, O.P. Mathew, Z. Yousefipour, F.M. Yatsu, S.G. Milton and B.E. Hayes. Butyrate-induced vascular smooth muscle cell (VSMC) growth arrest promotes upregulation of glutathione / glutathione-s-transferase anti-oxidant system. 20<sup>th</sup> Anniversary of NIH/NCRR program, April 6-8, 2005, Houston, TX

**K. Ranganna**, F.M. Yatsu, and O.P. Mathew: Vascular smooth muscle cell (VSMC) growth arrest may reduce leukoaraiosis in vivo. Fourth International Congress on Vascular Dementia, October 20-23, 2005, Porto, Portugal

F.M. Yatsu, **K. Ranganna** and O.P. Mathew: Butyrate-induced vascular smooth muscle cell (VSMC) growth arrest may play a role in inhibiting atherosclerosis in vivo. XVIIIth World Congress of Neurology, November 5-11, 2005, Sydney, Australia

M.A. Newaz, Z. Yousefipour, **K. Ranganna**, and A. Oyekan: Effect of siRNA to PPAR-alpha in the rat kidney. FASEB meeting, April 1-5, 2006, San Francisco, CA

**K. Ranganna**, A.C. Shivachar, O.P. Mathew and S. Rawal: Molecular Biology and Tissue Engineering Core Facility. Texas Southern University Research Day Program, 3-7 April, 2006, Houston, Texas

F.M. Yatsu, **K. Ranganna** and O.P. Mathew: Upregulation of glutathione-s-transferases (GSTs) and activation of Nrf2 transcription factor: relevance to atherosclerosis and strokes. 15th European stroke conference, 16 -19 May, 2006, Brussels, Belgium

**K. Ranganna**, O.P. Mathew and F.M. Yatsu: Butyrate-induced Intracellular Co-Localization of Glutathione-S-Transferase-P1 (GST-P1) and Transcription Factor Nrf2 in Vascular Smooth Muscle Cells. 10<sup>th</sup> RCM International Symposium, 13-16 December, 2006, San Juan, Puerto Rico.

O.P. Mathew, **K. Ranganna** and F.M. Yatsu: Upregulation of D1 and D3 Cyclins and p21/Cip1/Waf1 in Butyrate-Arrested Vascular Smooth Muscle Cell Growth. 10<sup>th</sup> RCM International Symposium, 13-16 December, 2006, San Juan, Puerto Rico.

R. Chu, **K. Ranganna** and J.R. Claycomb: Time-domain Dielectric Spectroscopic (TDS) Studies of Butyrate-inhibited Vascular Smooth Muscle Cell Proliferation. 10<sup>th</sup> RCM International Symposium, 13-16 December, 2006, San Juan, Puerto Rico.

R. Chu, **K. Ranganna** and J.R. Claycomb, G. Cardenas, V. Vajrала, and J. H. Miller, Jr. : Harmonic Response of Butyrate Treated Vascular Smooth Muscle Cells to Oscillatory Electric Fields. 24th Annual Houston Conference on Biomedical Engineering Research, 8-9 February 2007, Houston, Texas

**K. Ranganna**, F.M. Yatsu and O.P. Mathew: Arrest of vascular smooth muscle cell proliferation by butyrate up-regulates glutathione peroxidases and modulates intracellular levels of glutathione and ROS. European Atherosclerosis Society 76<sup>th</sup> Congress, 10-13 June, 2007, Helsinki, Finland

F.M. Yatsu, **K. Ranganna** and O.P. Mathew: Modulation of G1/S phase cell cycle proteins in butyrate-arrested vascular smooth muscle cell growth. European Atherosclerosis Society 76<sup>th</sup> Congress, 10-13 June, 2007, Helsinki, Finland

**K. Ranganna**, O.P. Mathew and F.M. Yatsu: Histone Deacetylase Inhibitors, Butyrate and Trichostatin A, Arrest Vascular Smooth Muscle Cell Proliferation: Provoke Differential Effect on G1/S Phase Cell Cycle Proteins. Annual Atherosclerosis, Thrombosis and Vascular Biology (Part of American Heart Association) Conference, April 16-18, 2008 Atlanta, GA.

**K. Ranganna**, F.M. Yatsu and O.P. Mathew: G1/S phase cell cycle proteins are modulated in butyrate- inhibited vascular smooth muscle cell proliferation. European Atherosclerosis Society 77<sup>th</sup> Congress, 26-29 April, 2008, Istanbul, Turkey

F.M. Yatsu, **K. Ranganna** and O.P. Mathew: Butyrate modulates cellular redox state in vascular smooth muscle cells: implications for atherosclerosis. European Atherosclerosis Society 77<sup>th</sup> Congress, 26-29 April, 2008, Istanbul, Turkey

M. Newaz, **K. Ranganna** and A. Oyekan: The modulating effect of PPAR-alpha shRNA on blood pressure and renal injury following nitric oxide withdrawal and high salt diet. The 62<sup>nd</sup> High Blood Pressure Research Conference, September 17-20 2008, Atlanta, GA

M. Newaz, Z. Yousefipour, **K. Ranganna** and A. Oyekan: G-Protein coupled Receptor Kinase-2 (GRK-2) - Mediated Regulation of Blood Pressure. The 62<sup>nd</sup> High Blood Pressure Research Conference, September 17-20 2008, Atlanta, GA.

**K. Ranganna**, OP. Mathew and FM. Yatsu: Insights into epigenetic regulation and chromatin remodeling of butyrate arrested vascular smooth muscle arrested vascular smooth muscle proliferation. International Atherosclerosis Symposium, June 14-18, 2009, Boston, MA

**K. Ranganna**, FM. Yatsu and OP. Mathew: Histone Acetylation Modifiers Butyrate and Trichostatin A Modulate Expression of Histone Deacetylases (HDACs) in Vascular Smooth Muscle Cells (VSMC). The 78th European Atherosclerosis Society Congress, June 20-23, 2010, Hamburg, Germany

#### **4) Other achievements in the area of scholarship**

- a. As a director of the molecular biology and tissue culture core facility my responsibilities are to assist TSU research investigators with tools, techniques, equipment, hands-on training, and pilot project support.
- b. Provided services to over 60 projects from **2004-2018** resulting in:
  - More than 80 Abstract presentations
  - More than 50 publications
  - About 43 grant applications, which included American Heart Association, NIH, NASA, Philip Morris, NSF, and Texas Higher Education Coordinating Board (THECB), were submitted. Of which, eight proposals were funded.
- c. Supported Pharmaceutical Sciences MS/PhD students and Environmental toxicology PhD students training, supplies and instrumentation support and lab rotation

Furthermore, to enhance TSU investigators biomedical research caliber, encourage interaction and collaboration with established scientists and promote opportunities for grant applications, organized a number of research seminars and several technology workshops from 1996-2016. Some of the recent workshops that were organized include:

- i. Odyssey CLx Infrared Imaging system users' training, 2016
- ii. Workshop sponsored by RCMI supported Molecular Biology core on "Empowering protein research with ProteinSimple's cutting edge technology" conducted by ProteinSimple.com, part of the protein platforms division of Bio-Techne (NASDAQ:TECH), August 14, 2015
- iii. Real-Time PCR applications training workshop by Life Science Technology with our new Applied Biosystems ViiA7 PCR system, June 25, 2013

## **Teaching (graduate and professional)**

### **A. Participation in different workshops and seminars sponsored by the TSU Teaching and Learning Excellence Center (TLEC) and Certificate of teaching for Health Professionals to develop, enhance and update Courses**

- Course development
- Teaching style
- Assessment of student active learning in class using TurningPoint workshop
- Assessment of student learning outcomes by attending Alverno development workshop
- AccessPharmacy training in the use of electronic database to assist pharmacy students on how to access pharmacy information using electronic database

### **B. Teaching**

#### **Professional (Pharmacy) courses**

PHAR 211 Pharmacy Applications  
 PAS535/Pathophysiology III  
 PHAR 438 Principles of Drug Action I  
 PHAR 418 Principles of Drug Action Lab  
 PHCH 441 Biochemistry of Human Diseases  
 PHAR 543 Integrated Pharmacotherapy II  
 PHAR 643 Pharmacotherapy VI-Endocrine systems Disorders

#### **Graduate Courses**

PHS 808 Pathophysiology  
 PHS 800 Bioethics  
 PHS 803 Seminar and special topics  
 PHS 804 Seminar and Grantsmanship  
 PHS 807 Experimental Design/Instrumentation/clinical Measurements  
 PHS 808 Pathophysiology  
 PHS 812 Advanced Biochemistry  
 PHS 900 Biosynthesis and drug metabolism

PHS 901 Cell Biology  
PHS 904 Genetics and Pharmacogenomics  
PHS911 Cardiovascular Pharmacology  
PHS 913 Molecular Pharmacology

### **C. Other contributions to the teaching**

a. **Summer Academy (Chemistry Lecture, 2011-2013)**- Structure of nucleic acids and chromosomes

b. **Student advising**

c. **Course Development:**

1. **Spring 2011 Graduate course Number/Title: PHS 913-Molecular Pharmacology (see the enclosed course syllabus)**

- Course syllabus was not developed appropriately
- Included specific molecular targets for pharmacology
- Students' presentations on particular molecular targets were included
- Invited special guest seminar speaker, Dr. Jayakumar to present his studies on "Targeting signaling pathways for cancer therapy"

**In Spring 2014 and in Spring 2018**, this course was further enhanced.

- By providing the information on the use of microRNAs as biomarkers for diagnosis of cancer and other diseases by developing minimally invasive tests using miRNAs present in biofluids such as blood serum/plasma and urine.
- Allowed the students to attend a free workshop on advances in miRNA biomarker sponsored by Exiqon Diagnostics in collaboration with the University of Texas. M.D. Anderson Cancer Center, February 4, 2014 to expose them to new area of biomarker testing.
- Also included epigenetics to target for disease prevention

2. **Spring 2012 PHS 900 Biosynthesis and drug metabolism**

- In this course students were introduced to pharmacogenomics of drug metabolizing enzymes and transporters to expose them to the knowledge of pharmacogenomics, which offers physicians the opportunity to individualize drug therapy for patients based on their genetic make-up
- Exposed the students to the possibility that the patient's genetic makeup or DNA sequence could be used to enhance pharmacotherapy, maximize drug efficacy and reduce the incidence of adverse drug reactions in the future

3. **Spring 2015 PHS 800 Bioethics**

- In this course, use of embryonic stem cells for the therapeutic and investigational studies is introduced along with ethical issues in the use embryonic tissue to isolate stem cells and the powerful current controversies regarding obtaining fetal tissue through abortion for investigational studies were discussed.

## **Graduate Contribution**

Being in a unique position as a project director of RCMI supported Molecular Biology core Activity and as a member of Graduate faculty, it allowed me to contribute to the Graduate program at TSU by advising, mentoring, training and providing research resources to several graduate students. Following are some of the contributions to the graduate program:

### **A. Membership**

- Regular member of Graduate Faculty- 2010-present
- Member and chair of the Program assessment & Evaluation Committee of PhD graduate program in Pharmaceutical Sciences-2014

### **B. Theses and Dissertations**

- Zivar Yousefipour, 2003, PhD Candidate, Environmental Toxicology Program, “Mechanism of Acrolein-induced vascular toxicity” thesis **Co-Advisor**
- Marian Gray, PhD Candidate, Pharmaceutical Sciences, “Antiatherogenic Potential of butyrate” **Thesis Advisor (Did not complete)**

### **C. Thesis and Dissertations Committee**

#### **PhD Program**

- Dickson Bisong, 2014, PhD Candidate, Pharmaceutical Sciences, ”Cholecalciferol in the modulation of hypertension and hypertension-associated complications in kidneys and penis of spontaneously hypertensive rats” **Thesis/Dissertation Committee member**
- **Shere Paris**, PhD Candidate, Pharmaceutical Sciences, “Putative roles of soluble epoxide hydrolase on tumorigenesis and angiogenesis of Glioblastoma multiforme”, **Thesis/Dissertation Committee member( from 2013-2014)**
- **Reem Alshaman 2016**, PhD Candidate, Pharmaceutical Sciences, “Role of mTOR in autophagy induction induced by ischemia-reperfusion injury (IRI) in the kidney”. **Thesis/Dissertation Committee member**
- **Brian Jordan**, 2016, PhD Candidate, Pharmaceutical Sciences, “Design and synthesis of curcumin analogues for anti-cancer activity against prostate, ovarian, cervical, head and neck cancer”, **PhD Thesis/Dissertation committee member**
- **Charlotta Mock**, 2016, PhD Candidate, Pharmaceutical Sciences, “Discovery of Vascular Endothelial Growth Factor Receptor-2 (VEGFR-2) Inhibitors by Ligand-Based Virtual High Throughput Screening”, **PhD Thesis/Dissertation committee member**

- **Leah Mitchell-Bush**, 2017, PhD Candidate, Pharmaceutical Sciences, “Retinal protection: The role of endocannabinoids and hydrogen sulfide” **Thesis /Dissertation Committee member.**
- **Jenaye Robinson**, 2018, PhD Candidate, Pharmaceutical Sciences, “Pharmacological role of hydrogen sulfide in aqueous humor dynamics”, **PhD Thesis/Dissertation committee member.**

### **MS Program**

- Abdullah Alatawi, 2013, MS Candidate, “Interaction of PPAR- $\alpha$ , CD36 and Th17 in AG II-induced hypertension”, **Thesis/Dissertation Committee member**
- Reem Alshaman, 2013, MS Candidate, “Role of mammalian target of rapamycin (mTOR) in ischemia reperfusion-induced kidney injury”, **Thesis/Dissertation Committee member**
- Syntia Kwende, 2015, MS Candidate, Environmental and Interdisciplinary Sciences, “Evaluation of Antiproliferative and Cytotoxic Properties of Herbal Supplement SAABFAT6 on Human Colorectal Adenocarcinoma (HT29) and Human Alveolar Adenocarcinoma (A549) Cell Lines” **MS Thesis/Dissertation committee member.**
- Mahsa Esmaeili, 2016, MS Candidate, Environmental and Interdisciplinary Sciences, “Modification of histones induced by acrolein in rat vascular smooth muscle cells (VSMC)”, **MS Thesis/Dissertation committee member.**
- Uchechi Grace Nwaiwu, 2017, MS Candidate, Environmental and Interdisciplinary Sciences, “Acrolein induced epigenetic modulation of vascular smooth muscle cells”, **Thesis/Dissertation committee member (Current)**
- Theresa Brown, 2017, MS Candidate, Environmental and Interdisciplinary Sciences, “Role of PPAR on NADPH and NO/NOS-dependent modulation of inflammation in acrolein-induced vascular toxicity”, **Thesis/Dissertation committee member (Current)**

D. **Lab rotation in Pharmacology-** To introduce potential advisor’ research interest to the incoming graduate students (About 4 weeks)

- HCOP summer students, 2010
- Abdullah Alatawi, February13
- Reem Alshaman, February13
- Marian Gray, April 2013
- Leah Mitchell, April 2013

E. **Students who were mentored and received hands-on training-** to perform their thesis project include:

- Yasmeeen Rizvi, 2011, PhD Candidate, Pharmaceutical Sciences, Interactions of PPAR-alpha and adenosine receptors in hypoxia-induced angiogenesis

- Sharika Lewis, 2012, PhD Candidate, Pharmaceutical Sciences, “The effect of PPAR alpha agonists on Inflammatory signaling in endometrial and prostate Cancer cell lines”
- Madhura Kulkarni, 2014, PhD Candidate, Pharmaceutical Sciences, “Pharmacological role of hydrogen sulfide in the posterior segment of the eye”
- Abdullah Alatawi, 2013-present, PhD Candidate, Pharmaceutical Sciences
- Reem Alshaman, 2013-present, PhD Candidate, Pharmaceutical Sciences
- Brian Jordon, 2014- 2016, PhD Candidate, Pharmaceutical Sciences
- Charlotta Mock, 2015-2016, PhD Candidate, Pharmaceutical Sciences
- Uchechi Grace Nwaiwu, 2017-2018, MS Candidate, Environmental and Interdisciplinary Sciences.
- Mahsa Esmaili, 2016, MS Candidate, Environmental and Interdisciplinary Sciences.
- Theresa Brown, 2017, MS Candidate, Environmental and Interdisciplinary Sciences

## **Z) Service to the university, the profession, and the community**

### **University/College**

#### **a) Speaker/Facilitator for workshop**

Workshop/seminar presentation for researchers was organized for research investigators and graduate students. The presenters were from Invitrogen/Molecular Probes and the presentation was entitled as, “Molecular Probes road show on Flow Cytometry”, September 30<sup>th</sup>, 2011

Real-Time PCR applications training by Life Science Technology with our new Applied Biosystems ViiA7 PCR system, June 25, 2013

Workshop sponsored by RCMI supported Molecular Biology core on “Empowering protein research with ProteinSimple’s cutting edge technology” conducted by ProteinSimple.com, part of the protein platforms division of Bio-Techne (NASDAQ:TECH), August 14, 2015

Dr. Arumugam Jayakumar, M.Sc., Ph.D., Research Scientist from University of Texas M.D. Anderson Cancer Center, the guest of Molecular Biology core presented a research seminar entitled “Development of small molecule inhibitors for cancer therapy” on September 18<sup>th</sup>, 2015.

#### **1. Committee assignments**

- Exam Committee -2010-2017
- Facilities and resources- 2010-current
- Faculty search committee- 2012
- Recombinant DNA committee- 2004-2010

- e) Radiation Safety committee- current
- f) Regular member of Graduate Faculty- 2011-present
- g) Member and chair of the Program assessment & Evaluation Committee of PhD graduate program in Pharmaceutical Sciences-2014-current
- h) Thesis and dissertation committee member for several MS/PhD students (see under Contribution to graduate program)

### **Service to the Profession/Academic discipline**

- a) Participated in 2016 Pharmaceutical Sciences curriculum development
- b) Revised the syllabus for the **Graduate Course Number/Title: PHS 913/ Molecular Pharmacology, Spring 2011**  
Second revision was made for the **Spring 2014** to the same course
- c) Revised the syllabus for the **Spring 2012 PHS 900 Biosynthesis and drug metabolism to include pharmacogenomics**
- d) Offered laboratory rotation experience to two HCOP students on June 27, 2011
- e) Two Pharmaceutical Sciences MS/PhD students performed laboratory rotation from April 15 to May 3, 2013
- f) Two Pharmaceutical Sciences MS/PhD students performed laboratory rotation from February 13 to March 2, 2012
- g) Mentored Summer Undergraduate research Program students in 2013 and 2014
- h) Molecular biology and Tissue culture core facility related services is described as follows:  
Provided cell culture and molecular biology research resource support and technical assistance to research projects, which are initiated by active researchers including: Drs. Chelliah, Milton, Hayes, Mathew, Njie-Mbye, Newaz, Oyekan, Sarkar, Shivachar, Yakubu and Yousefipour, and to some of the MS/PhD students. This support service activity resulted in: abstract presentations, publications, and several grant applications.

### **3. Community service**

#### **a) Student recruitment activities**

Screening of applications and recommendation for the selection of students for admission to 2012 MS/PhD program in Pharmaceutical Sciences, Spring, 2012

#### **b) Research articles reviewed for some of the Journals:**

Central Nervous System and Neurological disorders-Drug Targets, 2018  
Journal of Pharmaceutical Sciences and Experimental Pharmacology, 2017  
Peertechz Journal of Environmental Sciences and Toxicology, 2016  
Mini-Reviews in organic chemistry, 2016  
Renal Failure, 2010  
Stroke, 2007

**A) Name:** Amruthesh C. Shivachar

**B) College or School:** Pharmacy and Health Sciences.

**C) Department:** Pharmaceutical and Environmental Health Sciences,

Tel: 713-313-1896

Fax: 713-313-4219

E-Mail: [Amruthesh.shivachar@tsu.edu](mailto:Amruthesh.shivachar@tsu.edu)

**D) Date and Rank of First appointment:** November 2002, Assistant Professor

**E) Secondary appointment:** None

**F) Years granted toward tenure at time of employment:** 6 years

**G) Current Rank:** Associate Professor

**H) Date of current rank:** September 2009

**I) Date of Tenure:** September 2009

**J) Administrative/leadership training:** AACP leadership trainee 2012

**K) Years of Academic Service:** 16 yrs

**L) Whether or not degree is terminal:** Yes

**M) Schools Attended with dates:** University of Mysore, Mysore, INDIA, 1980-88;  
School of Medicine-VCU, 1988-1993; College of Pharmacy-UH 1996-2001

**N) Degrees Earned with fields and dates:** M.Sc in Biochemistry, 1983; PhD in  
Biochemistry, 1988; Post-doc in Pharmacology and Toxicology, 1988-1993

**O) Special Training Programs with fields and dates:** College of Pharmacy-UH,  
adrenergic and Opioids pharmacology, 1996-99 and 1999-2001; NASA-NRC fellow  
2002

Post-doc Eicosanoid Pharmacology, 1988-92, MCV- Virginia Commonwealth  
University, USA

Ph.D\* Biochemistry, 1988, University of Mysore, Mysore, INDIA

M.Sc\* Biochemistry, 1982, University of Mysore, Mysore, INDIA

B.Sc\* Chemistry, Botany and Zoology, 1978, University of Mysore, Mysore,  
INDIA

(\* click here for foreign degree evaluation certificate)

**P) Fields of Interest:** Cannabinoid pharmacology, Pharmacogenomics and Tissue  
engineering and regenerative medicine.

**Q) Professional Employment:**

2003-Present Associate Professor, Department of Pharmaceutical Sciences, College  
of Pharmacy, Texas Southern University, Houston, TX, 7704

2003-2009	Assistant Professor, Department of Pharmaceutical Sciences, College of Pharmacy, Texas Southern University, Houston, TX, 7704
2002-2002	Visiting Scientist, Department of Cell Biotechnology, NASA-Johnson Space Center, Houston, TX 77585
1996-2002	Visiting Assistant Professor, Department of Pharmacological and Pharmaceutical Sciences, University of Houston, Houston, TX. 77042
1993-1996	Research Assistant Professor, Department of Pharmacology /Toxicology, Medical College of Virginia, Richmond, VA 23298.
1992-1993	Research Instructor, Department of Pharmacology /Toxicology, Medical College of Virginia, Richmond, VA 23298
1988-1992	Postdoctoral Research Trainee, Department of Pharmacology/Toxicology, Medical College of Virginia, Richmond, VA 23298

**R) Consultantships and professional Services with dates:**

**Adjunct Faculty:**

Jagadguru Sri Shivarathreeswara College of Pharmacy, JSS Academy of Higher Education and Research, Mysuru-570015 India, 2015-present.

Duties include delivery of honorary lectures to pharmacy students and conduct workshops to faculty on various methods of assessing student learning and effectiveness of teaching in pharmacy education in India.

Establish research collaboration and student exchange programs between JSS- college of Pharmacy and Texas Southern University (MOU is pending approval).

Currently serving as Co-advisor for one graduate (PhD.) student in JSS-CP.

**Scientific reviewer**

Brain Research-2010-present  
Biochemical Pharmacology-2002-present  
Journal of Neurochemistry, 2000-present  
Journal of Pharmacological and Experimental Therapeutics, 2010-present  
Pharmacological research, 2008-present  
J. Pharmacology, 2011-present  
Stroke, 1995-present

**S) Organizations, memberships and offices held with dates:**

2011-present	American Society of Pharmacology and Experimental Therapeutics (ASPET)
2005-Present	American Association of Colleges of Pharmacy (AACP)
2004- Present	Graduate Faculty member-TSU

2001-Present Society for Neuroscience (SFN)  
1995-Present International Cannabinoid Research Society (ICRS)  
1993-present American Society for Neurochemistry (ASN)

**T) Fellowships and Honors:** American Heart fellowship-Virginia Affiliate, 1991-1993;  
NASA-NRC fellowship 2002-2004

**U) Awards and Prizes with dates:**

2016 Awarded Second prize for faculty Oral presentation at the TSU Research Day.  
2011 Awarded First prize for Faculty Oral presentation at the TSU Research Day  
1995 Young Investigator Education Enhancement Award- American Society for Neurochemistry  
1993 Member, Graduate Faculty, School of Medicine  
1989 Postdoctoral Research Fellowship Award- American Heart Association - Virginia Affiliate  
1987 Senior Research Fellowship Award- Indian Council of Scientific and Industrial Research  
1983 Junior Research Fellowship Award-University Grants Commission

**V) Grants with dates, amounts, approved, pending, and nominees level of participation and whether or not PI:**

a. Active: None

b. Pending: Seed grant

Project title: Antitumorigenic Effects of Chemically Modified Curcumin Analogs

Role and % effort: PI and 10%

Duration: 2016-17.

c. Past support:

Project title: Is glial hypoxic ischemic injury linked to genetic variation in soluble epoxide hydrolase gene expression?

Role and % effort: PI; 10%

Duration: 2010-2011

First year Budget: \$ 25,352

Agency: Institutional seed grant

Project title: Molecular Biology and Tissue Engineering core facility- a subcomponent of Institute for biomedical and health disparities research.

Role and % effort: Co-Director; 33%

Duration: 2004-2009

First year Budget: \$ 559,727  
Agency: NIH-NCRR (RCMI)

Project title: Brain drug metabolism and environmental toxicants  
Role and % effort: Principal Investigator; 50%  
Duration: 2002-2004  
Total budget: \$100,000 (start-up fund)  
Agency: RCMI

Project title: Can Cannabinoid block the addictive, but not the analgesic actions of Opioids?  
Role and % effort: Co-Investigator; 20%  
Duration: 2000-2002  
Total budget: \$ 111,148  
Agency: THECB-ARP

Project title: Synthesis, Metabolism and Pharmacology of Anandamide.  
Role and % effort: Co-Investigator (R01); 30%  
Duration: 1993-1996  
Total budget: \$ 360,000  
Agency: NIH-NIDA

Project title: Cytochrome P450-Arachidonate metabolites as cellular mediators in malignant glioma cells.  
Role and % effort: Principal Investigator; 20%  
Duration: 1994-1995  
Total budget: \$ 10,000  
Agency: American Cancer Society-MCV

Project title: Epoxygenase metabolites of arachidonic acid and the cerebral circulation.  
Role and % effort: Principal Investigator; 100%  
Duration: 1989-1991  
Total budget: \$ 44,000 (fellowship)  
Agency: American Heart Association-Virginia

### W) Scholarship:

1) *Publications and presentations with complete citations by category most recent first:*

Book Chapters:

1. **Shivachar A. C.**, Dakota Jackson\*, and Shere` Paris\*. Role of drug-metabolizing enzymes in astroglial function (chapter 1) in “Astrocytes structure and role in Disease”-Nova Publishers 2012 ISBN: 978-1-62081-585-4(eBook).

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2. **Shivachar A. C.** Isolation and culturing of glial, neuronal and neural stem cell types encapsulated in biodegradable peptide hydrogel. Chapter 8 in *Topics in Tissue Engineering, Vol 4. Eds. N. Ashammakhi, R. Reis and F Chiellini.*

3. Ellis, E.F. and **S.C. Amruthesh**. Brain epoxygenase metabolites of arachidonic acid produce oxygen radicals and affect in vivo platelet aggregation in the "Role of Neurotransmitters in Brain injury", (M. Globus and W.D. Dietrich Ed. ), pp. 367-372, 1992 Plenum Press, New York.
4. Ellis EF and **Shivachar AC**. Editorial Comment. *Stroke* 27 (5): 979-979, 1996
5. Manuscript in review/preparation. **Shivachar, A.C**. Neural Tissue engineering for growing rat embryonic brain cortical tissue in a 3-dimensional architecture using synthetic nanofiber scaffolds of Pura-Matrix Peptide Hydrogel (in preparation)
6. Manuscript in Review/preparation Shivchar A.C. Logue JL, Shaw K Constitutive expression, function, and drug-induced modulation of cannabinoid CB2 receptors in cultured rat cortical astrocytes.

Published Abstracts/peer reviewed articles:

7. Seema R, Morisseau C, Hammock BD, **Shivachar, AC**. Differential sub cellular distribution and co-localization of microsomal epoxide hydrolase and soluble epoxide hydrolase in cultured rat cortical astrocytes. *J. Neurosci. Res.* 87:218–227, 2009
8. **Shivachar, AC**. Cannabinoid inhibition of sodium-dependent, high-affinity excitatory amino acid transport in cultured rat cortical astrocytes. *Biochem. Pharmacol.* 2007; 73:2004-2011.
9. **Shivachar, A.C**. Neural Tissue engineering for growing rat embryonic brain cortical tissue in a 3-dimensional architecture using synthetic nanofiber scaffolds of Pura-Matrix Peptide Hydrogel. *Cytotherapy*, vol. 8, suppl. 2, 2006.
10. **Shivachar, A.C.**, and Eikenburg, D.C. Differential effects of epinephrine and norepinephrine on cAMP response and G-protein expression in cultured sympathetic neurons *J. Pharmacol. Exp. Ther.* 291: 258-264, 1999
11. **Shivachar, A.C.**, Billy R. Martin and Ellis, E.F. Anandamide-Evoked arachidonic acid mobilization and blockade by SR141716A. *Biochem. Pharmacol.* 51: 669-676, 1996.
12. **Shivachar, A.C.**, K.A. Willoughby, and E.F. Ellis. Effect of Protein kinase C modulators on 14, 15-Epoxyeicosatrienoic acid incorporation into astroglial phospholipids *J. Neurochem.* 65: 338-346 1995.
13. **Amruthesh S.C.**, M. Boerschel, J.S. McKinney, K.A. Willoughby and E.F. Ellis. Metabolism of arachidonic acid to epoxyeicosatrienoic acids, hydroxyeicosatetraenoic acids and prostaglandins in cultured rat hippocampal astrocytes. *J. Neurochem.* 61:150-159, 1993.
14. **Amruthesh S.C.**, J.R. Falck and E.F. Ellis. Brain synthesis and cerebrovascular action of epoxygenase metabolites of arachidonic acid. *J. Neurochem.* 58, 503-510, 1992.

15. Ellis, E.F., R.J. Police, L.M. Yancey, J.S. McKinney and **S.C. Amruthesh**. Dilution of cerebral arterioles by cytochrome P-450 metabolites of arachidonic acid. *Am. J. Physiol.* 259: H1171-H1177, 1990.
16. Ellis, E.F., **S.C. Amruthesh**, R.J. Police and L.M. Yancey. Brain Synthesis and cerebrovascular action of cytochrome P-450 / monooxygenase metabolites of arachidonic acid. *Advances in Prostaglandin, Thromboxane and Leukotriene Research* 21: 201-204, 1990.
17. **Amruthesh S.C.** and C.J.M. D'Souza. Membrane-bound 5'-nucleotidase inhibitor in Ehrlich ascites tumor cells and newborn mouse liver. *Biochim. Biophys. Acta* 884: 48-53, 1986.

Meeting Abstracts of talks/posters:

18. Thompson SJ and Shivachar AC. Hypoxia/reoxygenation differentially modulates astroglial-soluble epoxide hydrolase expression. Presented at the Cold Spring Harbor symposium on Glia in Health and Disease July 2010.
19. Shivachar AC. Cannabinoid inhibition of sodium-dependent, high-affinity excitatory amino acid transporters in cultured rat cortical astrocytes. Presented at the 36<sup>th</sup> Annual meeting of the Society for neuroscience held in Atlanta GA, Oct. 13-18<sup>th</sup> 2006.
20. Shivachar AC. Tissue-Engineered growth of Neurospheres in 3-D encapsulated drops of synthetic peptide hydrogel. Presented at the NASA Cell Science Conference, at Galveston, TX, Feb 23-25, 2005
21. Shivachar, AC. Cannabinoids inhibit excitatory amino acid transport in cultured rat cortical astrocytes. Accepted for presentation at the International Cannabinoid Research Society Annual meeting in Pastum, Italy to be held in June 22<sup>nd</sup> to 26<sup>th</sup> 2004.
22. Shivachar A. C. Tissue-engineered growth of prenatal rat brain neuronal-glia cells in 3-D architecture encapsulated in synthetic nanofiber scaffolds of puraMatrix peptide hydrogel. Presented at the International Symposium on Health Disparities at Baltimore, MD Dec 8-11
23. Shivachar, A. C. Cannabinoid modulation of astroglial glutamate transport: possible involvement of arachidonic acid. (Abstr. Presented in June at the ICRS meeting, 2000)
24. Shivachar, C.C. and Standifer, K.M. Detection of cannabinoid receptor CB1 immunoreactivity and cannabinoid agonist responses in SH-SY5Y human neuroblastoma cells (Abstr. Presented in June at the ICRS meeting, 2000)

25. Shivachar, A.C., and Eikenburg, D.C. Detection of  $\alpha_2$ A- and b-adrenergic receptor immunoreactivity in cultured sympathetic neurons (Abstr.) FASEB J. 13, A 142, 1999
26. Shivachar, A.C., and Eikenburg, D.C. Differential effects of epinephrine and norepinephrine on alpha-adrenoceptor responsiveness in cultured sympathetic neurons (Abstr.) FASEB J. 12, A444, 1998.
27. Shivachar, A. C., Abood, M. and Ellis, E.F. Detection of the cannabinoid receptor subtypes 1 (CB1) mRNA in primary cultures of rat cortical astrocytes (Abstr.) FASEB J. 10, A710, 1996.
28. Shivachar, A.C., Martin, B.R., and Ellis, E.F. The Cannabinoid receptor antagonist SR141716A blocks anandamide- and  $\Delta^9$ -THC-induced arachidonic acid release in astroglial cells (Abstr.) NIDA Research Monograph 162, 101, 1996
29. Shivachar, A.C., and Ellis, E.F. Anandamide-evoked arachidonic acid release in astroglial cells (Abstr.) J. Neurochem. 64 (suppl.) S1C, 1995.
30. Amruthesh, S.C., M. Boerschel, J.S. McKinney and E.F. Ellis. 14, 15-epoxyeicosatrienoic acid, an inhibitor of cerebral arteriolar platelet aggregation, is produced by astrocytes. FASEB J. 6 (4): A 1264, 1992.
31. Amruthesh, S.C., and E.F. Ellis. Formation and identification of novel, vasodilator metabolites of arachidonate in mouse brain. FASEB J. 4 (3): A993, 1990.
32. Ellis, E.F., S.C. Amruthesh, L.M. Yancey and R.J. Police. Brain synthesis and cerebrovascular action of cytochrome P-450/ epoxygenase metabolites of arachidonic acid. FASEB J. 4 (3): A409, 1990.
33. Ellis, E.F., S.C. Amruthesh, R.J. Police, L.M. Yancey and M. Heizer. Brain synthesis and cerebrovascular action of cytochrome P-450 monooxygenase metabolites of arachidonic acid. Abstracts of 7th International Conference on Prostaglandins and Related Compounds. Florence, ITALY, May 28-June 1, 1990.

*2) Other achievements in the area of scholarship:*

**Grant review Services.**

EPA STAR/GRO Fellowship-Reviewer (February 2008-present): "Molecular Biology" Panel.

**X) Teaching**

*1) Load and level by year since coming to TSU:*

2003-Present: College of Pharmacy, Texas Southern University, Houston TX

a. Pre-professional Course

- PHAR 211, Pharmacy Applications; participant
- b. Professional Courses (Pharm.D)
- PHCH 441, Biochemistry of Human Diseases (new course); Course coordinator
  - PHCH 431, Pharmaceutical Chemistry I; Course Coordinator
  - PHCH 411, Pharmaceutical Chemistry I-Lab; Course Coordinator
  - PHCH 432, Pharmaceutical Chemistry II; Course Coordinator
  - PHCH 412, Pharmaceutical Chemistry II-Lab; Course Coordinator
  - PHCH 532, Pharmaceutical Chemistry IV; Participant
  - PAS 547, Pharmacology and Toxicology II; Participant
  - PHAR 542-1 Pharmacotherapy-1 (new integrated course), participant
  - PHAR 642-V Pharmacotherapy-V (new integrated course), participant
- c. Graduate Courses (MS/PhD)
- ES 912, Neurotoxicology; Participant
  - PHS 900, Biosynthesis and Drug Metabolism; Course Coordinator
  - PHS 800, Pharmacology, participant
  - PHS 803, Seminar/Grantsmanship-1; Course Coordinator
  - PHS 803, Seminar/Grantsmanship-II; Course Coordinator
  - PHS 804, Seminar/Grantsmanship-1; Course Coordinator
  - PHS 806, Neuropharmacology; Participant

2) *Other contributions to the area of teaching:*

1. Educational research presentations:
  - a. Invited speaker at the joint Program Pharmaceutics/Bio-Science/Chemistry sections: Course integration, Assessment and Outcomes, in AACP 2005.
2. Attendance at educational meetings, seminars, workshops:
  - a. Delivered an educational seminar on case-based learning and Outcomes for Integration of (Bio) chemistry: a case-oriented approach at the joint Program Pharmaceutics/Bio-Science/Chemistry sections: Course integration, Assessment and Outcomes, in AACP 2005.
3. New teaching techniques:
  - a. Case-based teaching.
  - b. Collaborative learning
  - c. **Active learning in the class room using I-Clickers.**
4. Documented special problem sessions:
  - a. A case study session in a large classroom setting using i-clickers in spring 2008.
5. Updating of professional skills by attendance in professional meetings and workshops.
  - a. Teachers workshop in AACP 2007
6. Inclusion of new concepts and principles in teaching with periodic updates of lecture materials.

- a. Designed and implemented a new course (PHCH 441) to teach biochemical and molecular biological drug target sites to P1 students mainly as a case-based study.
- b. Blackboard PHCH 432 course syllabi 2004 and 2008
- c. Adopted new Text books for teaching Biochemistry in PHCH 431 and 432 and completely updated syllabi for PHCH 431/411 and PHCH 432/412 to address the outcomes listed ACPE guidelines for Biochemistry and Biotechnology.
- d. Provided course syllabus, materials and grades through Blackboard.
- e. Updated course material perpetually.
- f. Provided student-directed learning activities, such as group writing activities (essay writing and submission using Turn-it-in program), group literature evaluations, group presentations using Power point.
- g. Invited outside speakers to provide additional materials for PHCH 431/432 and PHS 803.
- h. Obtained faculty Evaluation reports >90% (2003-2008)

**Y) Graduate contributions-Theses and dissertations with student name, title of project, and dates:**

PhD Research Student: Mahadevan B., M.Pharm (2018-present). Co-advisor.

Thesis title: Development of Various Nanoparticle Formulations for efficient delivery of novel curcuminoid analog drugs in cancer therapy.

PhD Research student: Shere` Paris (2010-2015).

Mechansims of drug resistance in Glioblastoma multiforme

PhD Research student: Dakota Jackson (2010-2015)

Mechanisms of CB1 and CB2 receptor cross-talk in astroglial inflammatory responses under ischemic injury

Post-doctoral student: Dr. Seema Rawal (2005-07)

Differential distribution and expression of astroglial epoxide hydrolases

**Z) Service to the University, the profession and community with activity and dates:**

**Vice-Chair**, Ad Hoc Faculty Performance and Teaching Evaluation Instruments Committee (2011-present)

**Member**, Curriculum SIG, American Association of Colleges of Pharmacy (2007-present)

**Chair**, Radiation Safety Committee- Texas Southern University Compliance Committee (2004-2017)

**Member**, University Research Committee Advisory Board, Texas Southern University (2005-2007)

**Chair**, Assessment, Evaluation and Implementation Committee, College of Pharmacy and Health Sciences (2016-present)

**Member**, College Curriculum Committee-College of Pharmacy Texas Southern University (2003-present)

**Member**, Strategic Planning Committee, College of Pharmacy Texas Southern University (2006-present)

**Member**, Campus Curriculum Improvement- Clear Lake High School-CCISD (2003-2006)

**Member**, Mile Marker Exam Steering Committee -University of Houston College of Pharmacy (1999- 2000)

**Member**, Fundraising Committee (1999-2000) Raised \$300, 000 for the World Millennium Kannada Conference held in Houston, TX Sept.1-3, 2000.

# Hongmei Wang, PharmD, PhD, BCPS

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College of Pharmacy and Health Sciences  
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Email: Hongmei.wang@tsu.edu  
<https://www.linkedin.com/in/hongmei-wang-489920b/>

## EDUCATION AND TRAINING

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### ASHP Accredited PGY1 Pharmacy Residency

*Memorial Hermann Hospital System, Houston, TX*

07/2016 – 06/2017

### University of Houston College of Pharmacy, Houston, TX

*Teaching Certificate Program*

07/2016 – 06/2017

### Texas Southern University (TSU) College of Pharmacy and Health Sciences (COPHS), Houston, TX

*Doctor of Pharmacy*

07/2012 – 05/2016

### University of Science and Technology of China, Hefei, China

*Doctor of Philosophy in Molecular and Cellular Biology*

09/2000 – 07/2005

### Anhui University, Hefei, China

*Bachelor of Science in Biochemistry*

09/1994 – 07/1998

## PROFESSIONAL WORK EXPERIENCE

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### Texas Southern University, College of Pharmacy and Health Sciences, Houston, TX

*Assistant Professor*

Supervisor: Angie T. Eaton, PharmD

02/2018 – Present

### Houston Methodist Texas Medical Center, Houston, TX

*Clinical Pharmacy Specialist, Infectious Disease*

Supervisor: Michael G. Liebl, PharmD, BCPS

06/2018 – Present

### Texas Children's Hospital, Houston, TX

*Clinical Pharmacist*

Supervisor: Yemi Abudu, PharmD

07/2017 – 02/2018

### Walgreens Pharmacy, Houston, TX

*Pharmacy Technician*

Supervisor: Jill Odia, PharmD

02/2014 – 04/2016

### Baylor College of Medicine, Houston, TX

*Postdoctoral Associate and Project Intern*

Supervisor: Ching C. Lau, PhD, MD

01/2009 – 08/2013

### University of Texas MD Anderson Cancer Center, Houston, TX

*Postdoctoral Fellow*

Supervisor: Mien-Chie Hung, PhD

01/2006 – 12/2008

**PEER-REVIEWED PUBLICATIONS IN PROFESSIONAL JOURNALS**

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Li CW, Xia W, Lim SO, Hsu JL, Huo L, Wu Y, Li Y, Lai CC, Chang SS, Hsu YH, Sun HL, Kim J, Yamaguchi H, Lee DF, **Wang H**, Wang Y, Chou CK, Hsu JM, Lai YJ, LaBaff AM, Ding Q, Ko HW, Tsai FJ, Tsai CH, Hortobagyi GN1, Hung MC. AKT1 Inhibits Epithelial-to-Mesenchymal Transition in Breast Cancer through Phosphorylation-Dependent Twist1 Degradation. *Cancer Res.* 2016;76(6):1451-62 [2017 Journal Impact Factor: 9.122]

\*Wang YN, \***Wang H**, Yamaguchi H, Lee HJ, Lee HH, Hung MC. COPI-mediated retrograde trafficking from the Golgi to the ER regulates EGFR nuclear transport. *Biochem Biophys Res Commun.* 2010;399(4):498-504. (\*Co-First Author) [2017 Journal Impact Factor: 2.559]

Wang YN, Yamaguchi H, Huo L, Du Y, Lee HJ, Lee HH, **Wang H**, Hsu JM, Hung MC. The translocon Sec61beta localized in the inner nuclear membrane transports membrane-embedded EGF receptor to the nucleus. *J Biol Chem.* 2010;285(49):38720-9. [2017 Journal Impact Factor: 4.125]

Xu G, Tan X, **Wang H**, Sun W, Shi Y, Burlingame S, Gu X, Cao G, Zhang T, Qin J, Yang J. Ubiquitin-specific peptidase 21 inhibits tumor necrosis factor alpha-induced nuclear factor kappaB activation via binding to and deubiquitinating receptor-interacting protein 1. *J Biol Chem.* 2010;285(2):969-78. [2017 Journal Impact Factor: 4.125]

Cheng Z, Ke Y, Ding X, Wang F, **Wang H**, Wang W, Ahmed K, Liu Z, Xu Y, Aikhionbare F, Yan H, Liu J, Xue Y, Yu J, Powell M, Liang S, Wu Q, Reddy SE, Hu R, Huang H, Jin C, Yao X. Functional characterization of TIP60 sumoylation in UV-irradiated DNA damage response. *Oncogene.* 2008;27(7):931-41. [2017 Journal Impact Factor: 7.519]

**Wang H**, Guo Z, Wu F, Long F, Cao X, Liu B, Zhu Z, Yao X. PKA-mediated protein phosphorylation protects ezrin from calpain I cleavage. *Biochem Biophys Res Commun.* 2005;333(2):496-501. [2017 Journal Impact Factor: 2.559]

**Wang H**, Hu X, Ding X, Dou Z, Yang Z, Shaw A, Teng M, Cleveland DW, Goldberg ML, Niu L, Yao X. Human Zwint-1 specifies localization of Zeste White 10 to kinetochores and is essential for mitotic checkpoint signaling. *J Biol Chem.* 2004;279(52):54590-8. [2017 Journal Impact Factor: 4.125]

Xu G, **Wang H**, Teng M. Histone Acetylation/Deacetylation and Control of Eukaryote Gene Transcription. *Chemistry of Life.* 2001; 21(5): 347-9. (in Chinese)

Xu G, **Wang H**. Inductively coupled plasma mass spectrometry (ICP – MS) and its application in life sciences. *Plasma Science and Technology.* 2001;3(4): 921-5. [2017 Journal Impact Factor: 1.070]

**LEADERSHIP EXPERIENCES**

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**Texas Society of Health – System Pharmacists (TSHP)**

Member, Board of Directors	04/2018 – Present
Chair, New Practitioner Executive Committee	04/2018 – Present
Chair-Elect, New Practitioner Executive Committee	04/2017 – 04/2018
Member, New Practitioner Executive Committee	04/2016 – Present
Vice-Chair, Student Section Executive Committee	05/2015 – 04/2016
Member, Student Section Executive Committee	05/2013 – 04/2016

**TSU-COPHS Admissions and Academic Standards Committee**

Committee Member	09/2018-present
Student representative	09/2015 – 05/2016

<b>TSU-COPHS Continuing Professional Education Committee</b> Committee Member	09/2018-present
<b>TSU-COPHS Professionalism and Relationships Committee</b> Committee Member	09/2018-present
<b>TSU-COPHS 2015 Official Graduation Planning Committee</b> Committee Member	03/2015 – 05/2015
<b>TSU Student Societies of Health – System Pharmacy (TSU – SSHP)</b> President	05/2014 – 05/2015
President-Elect	05/2013 – 05/2014
<b>Rho Chi Honor Society – Gamma Delta Chapter</b> Secretary	04/2015 – 04/2016
Member	04/2015 – Present
<b>Phi Lambda Sigma Leadership Society</b> Member	09/2015 – Present
<b>Gulf Coast Society of Health – System Pharmacists (GCSHP)</b> Board of Directors, Student Representative TSU – SSHP Chapter	05/2014 – 05/2015
<b>American Pharmacist Association – Academy of Student Pharmacists (APhA – ASP)</b> Diabetes Committee Chair TSU Chapter	05/2013 – 05/2014

#### **AWARDS/HONORS**

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TSHP New Practitioner Member of the Month	12/2016
TSHP Special Recognition Award	10/2016
HOPA Travel Grant for 4th Annual Oncology Pharmacy Practice Management Meeting	09/2016
TSHP James T. Doluisio Scholarship	05/2016
TSU – SSHP chapter ASHP Clinical Skills Competition – 2 <sup>nd</sup> Place	10/2015
Phi Lambda Sigma Leadership Society	09/2015
TSHP Phyllis B. Ginsburg Memorial Scholarship	06/2015
TSHP Gulf Coast Society of Health-System Pharmacists Leadership Scholarship	06/2015
Cardinal Health Scholarship	05/2015
TSU COPHS Ambassador Award	05/2015
Walmart TSU Pharmacy Management Business Plan Competition – 2 <sup>nd</sup> place	12/2014
TSU – SSHP chapter ASHP Clinical Skills Competition – 4 <sup>th</sup> Place	10/2014
Rho Chi Honor Society	08/2014
TSU COPHS the Patrick R. Wells Endowment Award	05/2014
TSU COPHS Student Performance Scholarship	04/2014
TSU COPHS Student Achievement Scholarship	10/2013
TSU COPHS Student Performance Scholarship	05/2013
TSU COPHS Student Performance Scholarship	01/2013

#### **PROFESSIONAL PRESENTATIONS/PUBLICATIONS**

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*Food, Fun, Friendship, and CEs.* Pending Publish at Lone Star Pharmacist. December 2018.

*Now's the Time to Join the TSHP New Practitioner Section.* Published at Lone Star Pharmacist. September 2018.

*New Pharmacist, Let Your Voice Be Heard.* Published at Lone Star Pharmacist. June 2018.

*The Value of TSHP Membership.* Published at Lone Star Pharmacist. December 2017.

*What's New with TSHP New Practitioners?* Published at Lone Star Pharmacist. September 2017.

*Pediatric Crash Cart Preparedness and Medication Safety.* Presented at Memorial Hermann The Woodlands Hospital Medication Safety Committee. The Woodlands, TX. June 2017.

*Impact of Chronic Obstructive Pulmonary Disease (COPD) Management Education on Hospital Readmission Rates.* Pending presentation at Alcalde Southwest Leadership Conference. Galveston, TX. April 2017.

*Bridging the Gaps: Residency Showcases?* Published at Lone Star Pharmacist. March 2017.

*Evaluation of Blood Glucose Control Using Compute-based Insulin Protocol.* Poster. Presented at ASHP Midyear Clinical Meeting. Las Vegas, NV. December 2016.

*Review of Common Intravenous Chemotherapy and Biological Therapy.* Nurse Continue Education. Presented at Memorial Hermann Northeast Hospital, Houston, TX. December 2016.

*Local Residency Showcase: What's In It For Me?* Published at Lone Star Pharmacist. December 2016.

*Braden Scale association with skin adverse events in surgical intensive care unit.* Poster. Presented at ASHP Midyear Clinical Meeting. New Orleans, LA. December 2015.

*TSHP Student Society: TSU-SSHP Community Service Initiatives.* Poster. Presented at TSHP Annual Seminar. San Antonio, TX. April 2015.

*Patient and medication use patterns in a laparoscopic sleeve gastrectomy patient population.* Poster. Presented at ASHP Midyear Clinical Meeting. Anaheim, CA. December 2014.

*Promoting Antibiotic Awareness (SSHP Chapter Showcase).* Poster. Presented at ASHP Midyear Clinical Meeting. Anaheim, CA. December 2014.

*Antibiotic/ Antiviral Statewide Initiatives (TSHP Student Society Showcase).* Poster. Presented at ASHP Midyear Clinical Meeting. Anaheim, CA. December 2014.

*CHK1 inhibition enhances chemosensitivity of P53 deficient osteosarcoma cells.* Poster. American Association for Cancer Research (AACR) Annual Meeting. Orlando, FL. April 2011.

*Knock – down of TWIST1 increases sensitivity of osteosarcoma cells to doxorubicin chemotherapy.* Poster. Cancer Prevention & Research Institute of Texas (CPRIT) Conference. Austin, TX. November 2010.

*Clusterin is necessary and essential for the metastatic potential of osteosarcoma cells.* Poster. Presented at Dan L Duncan Cancer Center 8<sup>th</sup> Annual Symposium. Houston, TX. November 2010.

## **VOLUNTEER EXPERIENCES**

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TSHP New Practitioner Section College Outreach_TSU Speaker, Houston, TX	11/2018, 11/2016
ASHP Clinical Skills Competition Judge_TSU Chapter, Houston, TX	10/2018, 10/2017, 10/2016
TSU-COPHS Faculty Advisor for Pharmacy Class of 2022	09/2018 – Present
Moderator for TSHP Annual Seminar, Galveston, TX	04/2018, 04/2017, 04/2016

TSU 2018 Residency/Career Forum Speaker	09/2018
Pharmacy Volunteer for Hurricane Harvey_ NRG Center shelter	09/2017
Mentors, TSHP Mentorship Program	01/2017 – Present
P4 Students Annual Seminar Evaluator_University of Houston, Houston, TX	12/2016
2016 AHA Montgomery County Heart Walk, The Woodlands, TX	11/2016
Student Peer Mentor of TSU COPHS Houston, TX	08/2015 – 05/2016
2015 Lunar New Year Health Fair Event, Houston, TX	02/2015
Student Peer Tutor of TSU COPHS Houston, TX	08/2014 – 05/2016
Houston Food Bank, Houston, TX	11/2014 – Present
TPA Food Drive, Houston, TX	10/2014
Walgreens Flu Clinic Service, Houston, TX	10/2013 – 11/2013
Cuney Homes YMCA Antibiotics Awareness Event, Houston, TX	10/2013, 10/2014
Bellaire High School's College Night, Houston, TX	10/2013
Brown Bag Event at the Immaculate Conception Church, Houston, TX	08/2013
Pharmacy Volunteer at El Franco Lee Health Center, Houston, TX	12/2011 – 02/2012
Nursery Room Volunteer at Ben Taub General Hospital, Houston, TX	10/2011 – 11/2011

## LICENSURE AND CERTIFICATIONS

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<b>Board Certified Pharmacotherapy Specialist (BCPS)</b> <i>Board of Pharmacy Specialties</i>	07/2018 – Present
<b>Pharmacist Preceptor License #58934</b> <i>Texas State Board of Pharmacy</i>	05/2017 – Present
<b>Registered Pharmacist License #58934</b> <i>Texas State Board of Pharmacy</i>	08/2016 – present
<b>Advanced Cardiovascular Life Support (ACLS)</b> <i>American Heart Association</i>	07/2016 – Present
<b>Introductory to Compounding Laboratory Training</b> <i>Professional Compounding Centers of America (PCCA)</i>	01/2015
<b>Sterile Compounding and Aseptic Technique (IV Training)</b> <i>Accreditation Council for Pharmacy Education (ACPE) Accredited</i>	11/2014 – Present
<b>Basic Life Support for Healthcare Providers</b> <i>American Heart Association</i>	07/2012 – Present
<b>Pharmacy Immunization Delivery Certification</b> <i>American Pharmacists Association</i>	04/2013 – Present

## KNOWLEDGE AND SKILLS

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- Mandarin Chinese – read, speak, and writing fluently
- Computer: Intermediate level on Microsoft Tools (Microsoft PowerPoint, Word, Excel; Adobe Photoshop)
- Statistics: Intermediate level on Minitab 17

*Curriculum Vitae*

**HUAN XIE, Ph.D.**

4428 Verone Street

Bellaire, TX 77401

Phone: 713-775-6235

Email: [huanxie07@gmail.com](mailto:huanxie07@gmail.com)

**EDUCATION**

2000~2004 Ph.D., Chemistry, North Carolina State University, Raleigh, USA

1995~1999 B.S., Chemistry, Fudan University, Shanghai, China

**EMPLOYMENT**

2016-current Professor (tenured), Department of Pharmaceutical Sciences, College of Pharmacy and Health Sciences, Texas Southern University, Houston, Texas

2015-current Visiting professor, Department of Pharmacological and Pharmaceutical Sciences, College of Pharmacy, University of Houston

2016-current Visiting professor, School of Pharmacy, Fudan University, Shanghai, China

2012-2016 Associate professor (tenured), Department of Pharmaceutical Sciences, College of Pharmacy and Health Sciences, Texas Southern University, Houston, Texas

2008-2012 Assistant professor, Department of Pharmaceutical Sciences, College of Pharmacy and Health Sciences, Texas Southern University, Houston, Texas

- Research in development of drug formulation, drug delivery systems and pharmacokinetics
- Teach and mentor both Pharm.D. and Ph.D. courses
- Create and implement new curricula for the Pharm.D. and Ph.D. programs
- Actively involved in the accreditation process for Pharm.D. and Ph.D. programs

2004-2008 Senior research scientist, Nanospectra Biosciences, Inc., Houston, Texas

- Supervised, managed and trained technicians
- Conducted various research projects
- Applied research grants and published research papers
- Conducted pre-clinical studies and familiar with SOPs and GMP
- Collaborated with academia and industry across the nation

2000-2004 Graduate research assistant, North Carolina State University

- Performed various research projects
- Supervised and trained other junior graduate students

2000-2001 Graduate teaching assistant, North Carolina State University

- Instructed general chemistry for undergraduate students

1995-2000 Undergraduate research assistant, technician, Fudan University

- Developed new application of biosensor with enhanced direct electron transfer method

**RESEARCH INTEREST**

- Conventional and advanced nano-drug formulation and drug delivery
- Pharmacokinetics, efficacy and biodistribution studies of novel formulations
- Application of nanomedicine for therapy, imaging and diagnosis of cancer
- Analysis of drug molecules using HPLC and LC/MS/MS methods

## TEACHING INTEREST

- Pharmaceutics: Calculation and Dosage Formulations
- Pharmacokinetics and Physical Pharmacy
- Advanced Drug Formulation and Delivery
- Biochemistry

## CONSULTANTSHIPS AND PROFESSIONAL SERVICES

- Reviewer for 2014 and 2015 NIH RTRN *Small Grants*
- Editor of *American Journal of Modern Chromatography*
- Editor of *Austin Journal of Nanomedicine & Nanotechnology*
- Reviewer for *Nanoscale*
- Reviewer for *Journal of Immunological Methods*
- Reviewer for *Biochemical Sciences*
- Reviewer for *International Journal of Pharmaceutics*
- Reviewer for *International Journal of Nanomedicine*
- Reviewer for *African Journal of Pharmacy and Pharmacology*
- Reviewer for the 12<sup>th</sup> and 13<sup>th</sup> International Symposium of RCMI

## AFFILIATIONS

- American Association of Pharmaceutical Scientists (AAPS)
- American Association for Cancer Research (AACR)
- American Association of Colleges of Pharmacy (AACCP)
- Rho Chi Honor Society in Pharmacy (former student advisor)
- Gulf Coast Consortia (GCC)
- American Chemical Society (ACS)
- Phi Lambda Upsilon Honorary Chemical Society

## AWARDS/HONORS

2016	Minority Serving-Institution Faculty Award for AACR Annual Meeting 2016
2016	Invited speaker and Visiting Professor at Fudan University, Shanghai, China
2015	Texas Southern University Faculty Excellence Award-Scholarly Research/Creative activities Award
2015	The University of Texas at El Paso BUILDing SCHOLARS Summer Sabbatical Award
2015	Invited speaker at Clark Atlanta University
2015	Invited speaker at El Paso KTEP radio station "Science Studio"
2015	Invited speaker at the University of Texas at El Paso
2014	Invited speaker at University of Houston
2012	AACR Minority-Serving Institution Faculty Award
2011	Texas Southern University Research Oral Presentation Award

2010 RCMC 2010 Travel Award  
 2010 PhRMA Foundation National Research Starter in Pharmaceuticals Award  
 2009 Texas Southern University Research Poster Award  
 2002-2003 GlaxoSmithKline Fellowship  
 2001 NC State University Chemistry Department Outstanding Researcher Award  
 1999 Graduate with First-Honor from Fudan University  
 1995-1999 First-Honor scholarship of Fudan University for each semester

## **RESEARCH SUPPORT**

### **Ongoing Research Support**

RP180748 Liang (PI) 09/01/2018-08/30/2023 \$5,106,420  
 Cancer Prevention Research Institute of Texas (CPRIT)-Core Facilities Support Awards (CFSA)  
 “GCC Center for Comprehensive PK/PD and Formulation”  
 Goal: to provide a bridge to advance early translational cancer drug discovery through preclinical studies  
 Role: co-leader/Director

G12MD007605 Wilson/Oyekan (PI) 09/01/2014-05/31/2019 \$7,102,360  
 NIH-Research Centers in Minority Institutions Program (G12)  
 “Centers for Biomedical and Health Research Excellence”  
 Goal: to build up core facilities for biomedical research at TSU  
 Role: Co-Investigator/Director of Pharmacology Core

### **Complete Research Support**

5SC3GM102018 Xie (PI) 09/01/2012-07/31/2018 \$453,000  
 NIH-Support of Competitive Research (SCORE) Research Continuance Award (SC3)  
 “Development of a Novel nanoconstruct Based Photothermal Therapy for Tumor Hypoxia”  
 Goal: to continue developing a novel nanoconstruct based photothermal ablation therapy and to perform in vivo work to study the efficacy of this therapy.  
 Role: Principal Investigator

G12MD007605 Stemley/Oyekan (PI) 09/01/2016-05/31/2017 \$308,792  
 NIH-Research Centers in Minority Institutions Program (G12)  
 Additional Research Supplement  
 Goal: to purchase important instrument for the core facilities  
 Role: Co-Investigator/Director of Pharmacology Core

5RL5GM118969-03 Maldonado (PI) 07/01/2016 – 06/30/2017 \$30,200  
 NIH/NIGMS UT El Paso BUILDing Scholars Pilot Project  
 “Preclinical Development of Two Novel Antileishmanial Agents”  
 Goal: to perform preclinical study for two novel antileishmanial agents  
 Role: Consultant

5UL1GM118970-03 Olaley (PI) 07/01/2016–06/30/2017 \$20,000  
 NIH/NIGMS UT El Paso BUILDing Scholars Seed Project  
 “Advancing Undergraduate Research through a Novel Drug Discovery Scholars Mentoring Program”  
 Goal: to improve undergraduate research capability at TSU and UTEP

Role: Co-Investigator

1RL5MD009592 Xie (PI) 2015 \$10,000  
NIH/NIGMS UT El Paso BUILDing Scholars Summer Sabbatical Program  
“Development of Multimodal Hypoxia-Targeted Gold Nanorods for Image-Guided Photothermal Cancer Therapy”  
Goal: to collaborate with Dr. Bi at UTHSC-Houston on this proposed project  
Role: PI

U54RR022762, 11-12 KN-G007RN00-TSU-HX Xie (PI) 2011-2012 \$50,000  
NIH Research Centers in Minority Institutions Translational Research Network Small Grant  
“Nanoformulation Development of a Novel Prostate Cancer Inhibitor”  
Goal: to develop a multifunctional nanoformulation using liposome and gold nanorods to delivery a novel prostate cancer compound and improve the bioavailability.  
Role: PI

Xie (PI) 2010-2012 \$60,000  
Pharmaceutical Research and Manufacturers of America Foundation  
“Targeted Thioaptamer-Nanorod Bioconjugates for Tumor Hypoxia-Associated Carbonic Anhydrase IX”  
Goal: to develop a multifunctional nanoformulation using gold nanorods as a scaffold and a photo-thermal ablation agent conjugated to the CA IX binding thioaptamers for specific targeting.  
Role: PI

Xie (PI) 2009 \$15,000  
Texas Southern University Seed Grant  
“Multi-functional Gold Nanoparticle-Integrin  $\alpha_v\beta_3$  Peptide Conjugates for Tumor Targeting and Treatment”  
Goal: to develop an integrated approach to the specific targeting and treatment of cancer by using small nanoparticles and targeting peptide.  
Role: PI

70NANB4H3040 O’Neal (PI) 2004-2007 \$2,000,000  
NIST-ATP  
“The Seamless Detection and Treatment of Cancer with Near-infrared Absorbing Nanoshells”  
Goal: to achieve better thermal ablation of cancer by employing intravenously delivered nanoshells.  
Role: co-investigator

0548741 Schwartz (PI) 2006-2008 \$500,000  
NSF-SBIR Phase II  
“Device for the Activation of Nanoparticle-Based Cancer Therapies”  
Goal: to develop and test an image-guided, nanoshell-assisted photothermal treatment of brain tumors using a canine model.  
Role: co-investigator

0450484 Schwartz (PI) 2005-2007 \$404,156  
NSF- STTR Phase II  
“Nanoshell-based Cancer Therapy”

Goal: to determine if targeted therapies provide greater efficacy than untargeted nanoshell-based photothermal ablation and to develop a therapy using the optimized approach.

Role: co-investigator

## PUBLICATIONS

1. Ekpenyong, O.; Cooper, C.; Ma, J.; Liang, D.; Olaleye, O.; **Xie, H.** “A simple, sensitive and reliable LC-MS/MS method for the determination of 7-bromo-5-chloroquinolin-8-ol (CLBQ14), a potent and selective inhibitor of methionine aminopeptidases: Application to pharmacokinetic studies”, *J. Chrom. B*, 1097-1098, 35-43, 2018, PMID: 30199748
2. Gupta, R.; **Xie, H.** “Nanoparticles in Daily Life: Applications, Toxicity and Regulations”, *J. Environ. Pathol. Toxicol. Oncol.*, 37(3): 209-230, 2018
3. Chen, Y.; Bian, X.; Aliru, M.; Deorukhkar, A.A.; Ekpenyong, O.; Liang, S.; John, J.; Ma, J.; Gao, X.; Schwartz, J.; Singh, P.; Ye, Y.; Krishnan, S.; **Xie, H.** “Hypoxia-targeted-Gold Nanorods for Cancer Photothermal Therapy”, *Oncotarget*, 9(41), 26556-26571, 2018, PMID: 29899876
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5. Liang, S.; Bian, X.; Liang, D.; Sivils, J.; Neckers, L.; Cox, M.B.; **Xie, H.** “Solution Formulation Development and Efficacy of MJC13 in a Preclinical Model of Castrate-Resistant Prostate Cancer”, *Pharm. Dev. Technol.* 21(1): 121-6, 2016
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8. Bian, X.; Liang, S.; John, J.; Hsiao, C.; Wei, X.; Liang, D.; **Xie, H.** “Development of PLGA-Based Itraconazole Injectable Nanospheres for Sustained Release”, *Int. J. Nanomedicine*, 8, 4521-4531, 2013
9. John, M.K.; **Xie, H.**; Bell, E.C.; Liang, D. “Development and Pharmacokinetic Evaluation of a Curcumin Co-solvent Formulation”, *Anicancer Res.*, 33, 4285-4292, 2013
10. Liang, S.; Bian, X.; Ma, J.; Motolani, A.; Deorukhkar, A.A.; Krishnan, S.; **Xie, H.** “Development and Validation of a Sensitive LC/MS/MS Method for the Determination of  $\gamma$ -Tocotrienol in Rat Plasma: Application to Pharmacokinetic Studies”, *Biomed. Chrom.*, 27 (1), 58-66, 2013. PMID:22522964
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12. **Xie, H.**; Wang, Z.; Bao, A.; Goins, B.; Phillips, W.T. “Radiolabeled Gold Nanoshells for In Vivo Imaging: Example of Methodology for Initial Evaluation of Biodistribution of a Novel Nanoparticle”, *Nanoimaging – Pan Stanford Series on Biomedical Nanotechnology*, invited book chapter, Pan Stanford Publishing, 213-224, 2011
13. **Xie, H.**; Diagaradjane, P.; Deorukhkar, A.A.; Goins, B.; Bao, A.; Phillips, W.T.; Wang, Z.; Schwartz, J.; Krishnan, S. “Integrin  $\alpha_v\beta_3$ -targeted Gold Nanoshells Augment Tumor Vasculature-Specific Imaging and Therapy”, *Int. J. Nanomedicine*, 6, 259-269, 2011. PMID: 21423588

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15. **Xie, H.** “Gold Nanoshells for Tumor Photothermal Ablation: Pharmacokinetics, Imaging and Biodistribution”, *Elsevier’s SciTopics*, Oct., 1, 2010
16. **Xie, H.;** Wang, Z.; Bao, A.; Goins, B.; Phillips, W.T.; Coleman, C.L. “Radiolabeling of Nanoshells with <sup>64</sup>Cu and <sup>111</sup>In for PET and SPECT Imaging in Rats”, *NSTI Nanotechnology Conference Technical Proceedings*, 2009
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21. **Xie, H.;** Tkachenko, A.G.; Glomm, W. R.; Ryan, J.; Brennaman, M. K.; Papanikolas, J. M.; Franzen, S.; Feldheim, D. L. “Critical Flocculation Concentrations, Binding Isotherms, and Ligand Exchange Properties of Peptide-Modified Gold Nanoparticles Studied by UV-Visible, Fluorescence, and Time-Correlated Single Photon Counting Spectroscopies”, *Anal. Chem.* 75(21), 5797-5805, 2003. PMID: 14588020
22. **Xie, H.;** Franzen, S.; Feldheim, D. L. “Characterization of gold nanoparticle-peptide complexes for nuclear targeting”, *American Chemical Society* 226, U395-U395 295-COLL Part 1, 2003
23. Tkachenko, A.G.; **Xie, H.;** Coleman, D. M.; Ryan, J.; Anderson, M.; Glomm, W. R.; Franzen, S.; Feldheim, D. L. “Multifunctional Gold Nanoparticle-Peptide Complexes for Nuclear Targeting”, *J. Am. Chem. Soc.*, 125(16), 4700-4701, 2003. PMID: 12696875
24. Chen, X.; **Xie, H.;** Kong, J.; Deng, J. “Characterization for Didodecyldimethylammonium Bromide Liquid Crystal Film Entrapping Catalase With Enhanced Direct Electron Transfer Rate” *Biosensor Bioelectronics*, 16 (1-2), 115-120, 2001. PMID: 11261846

## PATENTS

1. **Xie, H.;** Cox, M.B.; Ekpenyong, O. “Intravenous Formulation and LC/MS/MS Analysis Method for GMC1” US10,010,534, July 3, 2018,
2. **Xie, H.** Liang, S.; Cox, M.B.; Neckers, L.; “FKBP52 Targeting Agent Pharmaceutical Compositions” U.S. Patent Application No. 61/788,716, Mar. 15, 2013; International Patent Application No. PCT/US2014/025678, Mar.13, 2014
3. **Xie, H.;** Ekpenyong, O.; Olaleye, O. “Intravenous and Oral/Subcutaneous Formulations and Analytical Methods for OJT001”, add-on to previous patent application “Methionine Aminopeptidase Inhibitors for Treating Infectious Diseases” US 2015/ 0141415 A1, May 21, 2015

## PRESENTATIONS AND ABSTRACTS

1. Gao, X.; **Xie, H.** “Formulation Development and Pharmacokinetics of OJT001 Loaded Solid Lipid Nanoparticles”, American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Washington D.C., November 6, 2018
2. Gao, X.; **Xie, H.** “Development and Pharmacokinetics of OJT001 Loaded Solid Lipid Nanoparticles”, 8<sup>th</sup> International Colloids Conference, Shanghai, June 10-13, 2018
3. Cooper, C.; **Xie, H.** “Development and Validation of LC-MS/MS Assays for NC2459, A Novel Antileishmanial Molecule for Application to Pre-clinical Studies”, American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, San Diego, November 12-15, 2017
4. Cooper, C.; **Xie, H.** “LC-MS/MS Assay Development of a New Anti-Infectious Molecule”, RCMI Translational Science 2017 Conference, Washington, DC, Oct. 29, 2017
5. Cooper, C.; **Xie, H.** “LC-MS/MS Assay Development of a New Anti-Infectious Molecule”, RCMI Translational Science 2017 Conference, Washington, DC, Oct. 29, 2017
6. Gao, X., Xie, H. “Preformulation Study for OJT01 Loaded Nanoparticles”, RCMI Translational Science 2017 Conference, Washington, DC, Oct. 31, 2017
7. Chen, Y., Xie, H. “Hypoxia-Targeted Gold Nanorods for Photothermal Therapy”, RCMI Translational Science 2017 Conference, Washington, DC, Oct. 31, 2017
8. Olaley, O; Xie, H. “Discovery of Novel Chemotherapeutic Agents for Hospital Acquired Infections”, ASPET/ADDC Academic Drug Discovery Colloquium, Bethesda, MD, Oct. 12, 2017
9. Xie, H. “Preclinical development of GMC1, a novel molecule targeting FKBP52 for the treatment of castration resistance prostate cancer”, Conference on Pharmaceutics and Drug Delivery Systems, Valencia, Spain, July 1, 2017
10. Xie, H. “Early development of GMC1, a novel molecule targeting FKBP52 for the treatment of hormone-refractory prostate cancer”, American Association for Cancer Research (AACR) Annual Meeting 2017, Washington, D.C., Apr.1, 2017
11. Ekpenyong, O.; **Xie, H.** “Pharmacokinetic Study of GMC1, A Novel Molecule Targeting FKBP52 for the Treatment of Hormone Refractory Prostate Cancer”, American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Denver, November, 2016
12. Ekpenyong, O.; Xie, H. “Formulation Development for the Pre-clinical Studies of GMC1, a Novel Molecule for the Treatment of Castrate-Resistant Prostate Cancer”, American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Denver, November, 2016
13. Ekpenyong, O.; Xie, H. “Development and Validation of LC-MS/MS Assays for GMC1, A Novel Hormone Refractory Prostate Cancer Molecule for Application to Pre-clinical Studies”, American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Denver, November, 2016
14. Ekpenyong, O.; Xie, H. “Formulation of New Prostate Cancer Molecule, GMC1, for Pre-clinical Studies: Application to Pharmacokinetic Studies.”, 76<sup>th</sup> FIP World Congress of Pharmacy and Pharmaceutical Sciences, Buenos Aires, Argentina, Aug.28, 2016
15. Xie, H. “Gold nanorods based hypoxia-targeted photothermal cancer therapy”, American Association for Cancer Research (AACR) Annual Meeting 2016, New Orleans, Apr.18, 2016
16. Xie, H. “Hypoxia-Targeted Gold Nanorods for Cancer Photothermal Therapy”, American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Orlando, October, 2015
17. Ekpenyong, O.; Olaley O.; Xie, H. “Preclinical Development of OJT001, A Novel Antimycobacteria Drug”, American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Orlando, October, 2015

18. Cooper, C.; Xie, H. "Development of PLGA Based BSA Nanoparticles with Bisphosphonate Bone Targeting", American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Orlando, October, 2015
19. Xie, H. "Development of Nanoformulations for Drug Delivery, Live Imaging and Cancer Therapy", invited seminar, Clark Atlanta University, Apr. 15, 2015
20. Xie, H. "Development of Nanoformulations for Drug Delivery, Live Imaging and Cancer Therapy", invited seminar, University of Texas at El Paso, Jan. 30, 2015
21. Xie, H. "Preclinical Drug Development", invited seminar, University of Texas at El Paso, Jan. 30, 2015
22. Xie, H. "Development of Nanomedicine for Drug Delivery and Photothermal Cancer Therapy", invited seminar, University of Houston, Mar.21, 2014
23. Xie, H. "Development of a Novel Nanoconstruct for Photothermal Therapy of Tumor Hypoxia" 14<sup>th</sup> RCMI International Symposium on Health Disparities. National Harbor, Maryland, December 2, 2014.
24. Liang, S.; Xie, H. "Formulation Development and Efficacy of MJC13 in a Preclinical Mouse Model of Castrate-resistant Prostate Cancer", American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, San Diego, November, 2014
25. Liang, S.; Xie, H. "PEGylated Liposomal Formulation with Enhanced Pharmacokinetic Profile of MJC13", American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, San Diego, November, 2014
26. Xie, H. "Development of Nanomedicine for Drug Delivery and Photothermal Cancer Therapy", invited seminar, University of Houston, May, 2014
27. Liang, S.; Xie, H. "LC-MS/MS Assay Development, Preformulation, Co-solvent Formulation and Pharmacokinetic Studies of MJC13: A Newly Identified Molecule for the Treatment of Hormone Refractory Prostate Cancer", American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, San Antonio, November, 2013
28. Bian, X.; Xie, H. "Development of Injectable PLGA-Itraconazole Nanospheres for Controlled Release", American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, San Antonio, November, 2013
29. John, J.; Xie, H. "Development of gamma-Tocotrienol Loaded PLGA Nanoparticles", American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, San Antonio, November, 2013
30. Xie, H. "Intratumoral Administration of Nanoparticles" 13<sup>th</sup> RCMI International Symposium on Health Disparities. San Juan, Puerto Rico, December 9-12, 2012.
31. Bian, X.; Xie, H. "Development of a Novel Nanoconstruct for Tumor Hypoxia Targeting", 13<sup>th</sup> RCMI International Symposium on Health Disparities. San Juan, Puerto Rico, December 9-12, 2012.
32. Liang, S.; Xie, H. "Development and Validation of a Sensitive LC/MS/MS Method for the Determination of  $\gamma$ -Tocotrienol in Rat Plasma", 13<sup>th</sup> RCMI International Symposium on Health Disparities, San Juan, Puerto Rico, December 9-12, 2012.
33. Liang, S.; Xie, H. "Remotely Triggered Release Liposomes for Delivery of MJC13: Preparation, Characterization, and Pharmacokinetics", 13<sup>th</sup> RCMI International Symposium on Health Disparities, San Juan, Puerto Rico, December 9-12, 2012.
34. Liang, S.; Xie, H. "Remotely Triggered Release Liposomes for Delivery of MJC13: Preparation, Characterization, and Pharmacokinetics", American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Chicago, October 14-18, 2012

35. Xie, H. "Development of a novel nanoconstruct for tumor hypoxia photothermal therapy", American Association of Cancer Research (AACR) 2012 Annual conference, Apr. 2, 2012, Chicago, received "Minority-Serving Institution Faculty Scholar in Cancer Research Award"
36. Bian, X.; Xie, H. "Gold Nanorods-Anti CA IX Conjugates for Tumor Targeting and Photothermal Ablation", Texas Southern University Research Week Oral Presentation, Apr. 3, 2012 (Ms. Bian won 3<sup>rd</sup> place for student oral presentation)
37. Liang, S.; Xie, H. "Development and Validation of a Sensitive LC/MS/MS Method for the Determination of  $\gamma$ -Tocotrienol in Rat Plasma", Texas Southern University Research Week Poster Presentation, Apr. 3, 2012 (Mr. Liang won 3<sup>rd</sup> place for student poster presentation)
38. Arogunjo, M.; Xie, H. "HPLC Assay for Quantification of  $\gamma$ -Tocotrienol for Pharmacokinetic Studies in Human Plasma", Texas Southern University Research 2011 Summer Undergraduate Research Program, Aug. 5, 2011 (Mr. Arogunjo won 1<sup>st</sup> place for this program)
39. Xie, H. "Integrin  $\alpha_v\beta_3$ -targeted Gold Nanoshells for Tumor Vasculature-Specific Imaging and Therapy", Texas Southern University Research Week Oral Presentation, Apr.6, 2011 (won 2<sup>nd</sup> place)
40. Bian, X.; Xie, H. "Gold Nanorods-Anti CA IX Conjugates for Tumor Targeting and Photothermal Ablation", Texas Southern University Research Week Oral Presentation, Apr. 5, 2011
41. Xie, H. "Integrin  $\alpha_v\beta_3$ -targeted Gold Nanoshells for Tumor Imaging and Therapy", 12<sup>th</sup> RCMI International Symposium, Dec. 8, 2010, Nashville, received Travel Award
42. Bian, X.; Deorukhkar, A.A.; Krishnan, S.; Xie, H. "Gold Nanorod-Anti CA IX Conjugates for Tumor Targeting and Therapy", 12<sup>th</sup> RCMI International Symposium, Dec. 8, 2010, Nashville
43. Xie, H.; Wang, Z.; Bao, A.; Goins, B.; Phillips, W.T.; Coleman, C.L. "Radiolabeling of Nanoshells with <sup>64</sup>Cu and <sup>111</sup>In for PET and SPECT Imaging in Rats", NSTI Nanotechnology Conference, May 5, 2009, Houston
44. Xie, H. "Radiolabeling of Gold Nanoshells for PET and SPECT Imaging in Live Animals", Texas Southern University Research Week Oral Presentation, Mar. 30, 2009 (won 3<sup>rd</sup> place)
45. Xie, H. "Preparation, Characterization and Intracellular Targeting of Biomolecule-Gold Nanoparticle Complexes", Defense at the North Carolina State University, Sept. 2004, Raleigh
46. Xie, H.; Franzen, S.; Feldheim, D. L. "Characterization of Mixed Biomolecules Coated Nanoparticles for Nuclear Targeting", Pittcon national meeting, Mar. 9, 2004, Chicago
47. Xie, H.; Franzen, S.; Feldheim, D. L. "Characterization of gold nanoparticle-peptide complexes for nuclear targeting", *American Chemical Society* 226, U395-U395 295-COLL Part 1, 2003

## MENTORSHIP

- Yuan Chen (Ph.D., Research Scientist), 2016 ~ current, under my direct supervision  
Various research projects related to nanoformulation development  
In charge of RCMI Pharmacology Core lab services
- Jing Ma (MD, Research Scientist), 2009 ~ current, under my direct supervision  
Various research projects related to LC-MS/MS analysis and animal procedure  
In charge of lab maintenance
- Xiuqing Gao (Ph.D. student), 2015 ~ current, under my direct supervision  
Research project 1: Novel combination therapy for pancreatic cancer  
Research project 2: Development of multimodal hypoxia-targeted gold nanorods for image-guided photothermal cancer therapy

- Ritu Gupta (Ph.D. student), 2017 ~ current, under my direct supervision  
Research project: Preclinical development of novel cancer drug
- Oscar Ekpenyong (Ph.D. student), 2013 ~ 2017, under my direct supervision  
Research project 1: Formulation development for GMC1 (patent pending)  
Research project 2: Formulation development for OJT001, 002 and 003, novel antimycobacterial drugs (patent pending)  
Current job: Merck, Inc.
- Candace Cooper (Ph.D. student), 2013 ~ 2018, under my direct supervision  
Research project 1: Advanced formulation of for osteogenesis treatment (patent filing)  
Research project 2: Formulation development for NC2459, novel infectious disease drug  
Current job: USA FDA
- Xiaomei Bian (Ph.D.), 2009 ~ 2014, under my direct supervision  
Research project 1: Gold Nanorod-Anti CA IX Conjugates for Tumor Targeting and Therapy  
Research project 2: Gold Nanorod-Anti HERV-K Conjugates for Tumor Targeting and Therapy  
Research project 3: Nanosphere Formulation Development for Itraconazole  
Current job: Premier Research Labs, Austin
- Su Liang (Ph.D.), 2009 ~ 2014, under my direct supervision  
Research project 1: Development and Validation of a Sensitive LC/MS/MS Method for the Determination of  $\gamma$ -Tocotrienol in Rat Plasma: Application to Pharmacokinetic Studies  
Research project 2: Preclinical Development for MJC13 (patent pending)  
Research project 3: Remotely Triggered Release Liposomes for Delivery of MJC13 (novel anti-prostate cancer drug): Preparation, Characterization, and Pharmacokinetics  
Previous job: Genentech, Inc.  
Current job: USA FDA
- Jyothy John (Ph.D., postdoctoral fellow), 2012 ~2014, under my direct supervision  
Research project: Formulation Development of  $\gamma$ -Tocotrienol  
Current Job: USA FDA
- Yifan Tu (Ph.D. student at University of Houston), 2016~current, serve as his thesis committee member  
Research project: The Establishment of QSAR of Hepatic Uptake Transporters in Enterohepatic Recirculation
- Shere Paris (Ph.D. student), 2008 ~ 2016, serve as her thesis committee member  
Research project: Putative Roles of Soluble Epoxide Hydrolase on Tumorigenesis and Angiogenesis of Glioblastoma Multiforme
- Dakota Jackson (Ph.D. student), 2008 ~ 2016, serve as her thesis committee member  
Research project: The Effects of Inflammatory Insults on Astroglial Cannabinoid Receptor 2 Expression and Anti-inflammatory Responses
- Cheng-Hui Hsiao (Ph.D.), 2010 ~ 2015, serve as his thesis committee member  
Research project: impact of obesity of pharmacokinetics/pharmacodynamics of propofol in obese pediatric patients and rats model  
Current Job: Baylor College of Medicine
- Adaugo Isichei (Ph.D.), 2010 ~ 2014, serve as her thesis committee member

Research project: Evaluation of Enterococcus Faecalis Methionine Aminopeptidase Inhibitors in a Caenorhabditis Elegans Model of Infection

Current job: Assistant professor at Saudi

- Sarah Finney John (Ph.D.), 2010 ~ 2014, serve as her thesis committee member  
Research project: Discovery of Novel Anti-infectives Targeting Mycobacterium Tuberculosis and Human Immunodeficiency Virus Co-Infection  
Current Job: Baylor College of Medicine
- Mathew John (Ph.D. ), 2008 ~ 2014, serve as his thesis committee member  
Research project: Development and Pharmacokinetic Evaluation of a Curcumin Co-solvent Formulation  
Current Job: USA FDA
- Keila Robinson (Ph.D.), 2010 ~ 2014, serve as her thesis committee member  
Research project: Development and Pharmacokinetic Evaluation of Resveratrol  
Current Job: USA FDA
- Jason Ryan Caballero (Ph.D.), Fall 2009 ~ Summer 2012, serve as his thesis committee member  
Research project: Self Emulsifying Drug Delivery Systems and Their Application Towards Non-Soluble Azole Antifungals.  
Current Job: USA FDA
- Linh Nguyen (Pharm.D. student), Summer 2015 ~ current, under my direct supervision  
Research project: Formulation development for OJT001
- Mohammed Fahimddin (Pharm.D.), Spring 2010 ~ Spring 2012, under my direct supervision  
Research project: Synthesis of Gold Nanorods with Different Aseptic Ratios  
Graduated from TSU College of Pharmacy with Pharm. D. degree in Spring 2012.  
Currently job: PGY-1 Pharmacy Residency at Ochsner Medical Center
- Motolani Oladipo Arogunjo (Pharm.D.), Summer 2011 (TSU URP Award), under my direct supervision  
Research project: Development of HPLC assay for Quantification of  $\gamma$ -Tocotrienol for Pharmacokinetics Study. (This project was published along with my graduate students.)  
Currently job: Pharmacy Residency at Texas Children's hospital

## TEACHING

Fall 2008:

PHAR513 Pharmaceutics III Lab, section I, II, III

PHS811 Pharmacokinetics

Spring 2009:

PHAR514 Pharmaceutics IV Lab, Sections I, II, III

PHAR534 Pharmaceutics IV

PHS810 Physical Pharmacy

PHS900 Biosyn and Drug Metabolism

PHS916 PhD Research

Summer 2009:

PHAR 434 Pharmaceutics II Dosage Forms

Summer Academy  
PHS917 Ph.D. Research

Fall 2009

PHAR513 Pharmaceutics III Lab, Sections I, II, III  
PHAR433 Pharmaceutics I Calculations  
PHAR 430 Biostatistics  
PHS916 Ph.D. Research

Spring 2010

PHAR514 Pharmaceutics III Lab, Sections I, II, III  
PHAR414 Pharmaceutics II Lab, Sections I, II, III  
PHAR534 Pharmaceutics IV  
PHS810 Physical Pharmacy  
PHS807 Experimental Design  
PHS802 Seminar/Grantsmanship  
PHS916 Ph.D. Research

Summer 2010

PHAR434 Pharmaceutics II Dosage Forms  
Summer Academy  
PHS917 Ph.D. Research

Fall 2010

PHAR413 Pharmaceutics I Lab, Sections I, II, III  
PHAR433 Pharmaceutics I Calculation  
PHS812 Advanced Biochem  
PHS916 Ph.D. Research

Spring 2011

PHAR434 Pharmaceutics II Dosage Form  
PHS803 Seminar/Grantsmanship  
PHS807 Experimental Design  
PHS907 Advanced Pharmaceutics  
PHS916 Ph.D. Research

Summer 2011

PHAR434 Pharmaceutics II Dosage Form  
Summer Academy  
PHS917 Ph.D. Research

Fall 2011

PHS812 Advanced Biochem  
PHAR413 Pharmaceutics I Lab, Sections I, II, III  
PHAR433 Pharmaceutics I Calculation  
PHS916 Ph.D. Research

Spring 2012

PHAR434 Pharmaceutics II Dosage Form  
PHS807 Experimental Design  
PHAR414 Pharmaceutics II Dosage Form Lab  
PHS916 Ph.D. Research

Summer 2012

PHAR434 Pharmaceutics II Dosage Form  
Summer Academy  
PHS917 Ph.D. Research

Fall 2012

PHAR433 Pharmaceutics I Calculation  
PHAR413 Pharmaceutics I Lab, Sections I, II, III  
PHS916 Ph.D. Research

Spring 2013

PHAR434 Pharmaceutics II Dosage Form  
PHAR433 Pharmaceutics I Calculation  
PHAR413 Pharmaceutics I Lab, Sections I, II, III  
PHS807 Experimental Design  
PHS917 Ph.D. Research  
PHS918 Ph.D. Dissertation I

Summer 2013

PHAR434 Pharmaceutics II Dosage Form  
Summer Academy  
PHS917 Ph.D. Research

Fall 2013

PHS810 Physical Pharmacy  
PHS918 Ph.D. Dissertation I  
PHS804 Seminar/Grantsmanship

Spring 2014

PHAR434 Pharmaceutics II Dosage Form  
PHAR413 Pharmaceutics II Lab, Sections I, II, III  
PHS807 Experimental Design  
PHS917 Ph.D. Research  
PHS918 Ph.D. Dissertation I

Summer 2014

PHAR434 Pharmaceutics II Dosage Form  
Summer Academy  
PHS917 Ph.D. Research

Fall 2014

PHAR433 Pharmaceutics I Calculation  
PHAR413 Pharmaceutics I Lab, Sections I, II, III  
PHS916 Ph.D. Research

Spring 2015

PHAR434 Pharmaceutics II Dosage Form  
PHAR413 Pharmaceutics II Lab  
PHS917 Ph.D. Research  
UH-PHAR4331 Pharmaceutics Dosage Form (at University of Houston)

Fall 2015

PHAR433 Pharmaceutics I Calculation, Sections I, II

PHAR413 Pharmaceutics I Lab, Sections I, II, III  
PHS916 Ph.D. Research

Spring 2016

PHAR434 Pharmaceutics II Dosage Form  
PHAR413 Pharmaceutics II Lab  
PHS917 Ph.D. Research  
UH-PHAR4331 Pharmaceutics Dosage Form (at University of Houston)

Fall 2016

PHS810 Physical Pharmacy  
PHS916 Ph.D. Research

Spring 2017

PHAR434 Pharmaceutics II Dosage Form  
PHAR413 Pharmaceutics II Lab  
PHS807 Experimental Design  
PHS917 Ph.D. Research

Fall 2017

PHAR433 Pharmaceutics I Calculation, Sections I, II  
PHAR413 Pharmaceutics I Lab, Sections I, II, III  
PHS916 Ph.D. Research

Spring 2017

PHAR434 Pharmaceutics II Dosage Form  
PHAR413 Pharmaceutics II Lab  
PHS807 Experimental Design  
PHS917 Ph.D. Research

**NOTE:** PHAR indicate Pharm. D. courses  
PHS indicate Ph. D. courses  
All past courses student evaluations are above 4/5

## SERVICE

### *Service to the Department, College and University*

- TSU University Rank, Tenure, Promotion & Salary Committee 2014-current
  - ✓ To evaluate Faculty manual of each college
  - ✓ To discuss appeal cases of tenure and promotion application
- TSU University IACUC committee 2015-current
  - ✓ To read, approve or disapprove submitted animal protocols
  - ✓ To improve animal facility and regulations
- TSU Research Advisory Council 2013-current
  - ✓ To facilitate TSU research activities
  - ✓ To review and score seed grant application
- TSU Graduate Faculty 2009-current
  - ✓ To mentor graduate students

- ✓ To teach graduate level courses
- TSU College of Pharmacy and Health Sciences (COPHS) Admission and Academic Standards Committee member 2009-current
  - ✓ To review and vote on admission criteria and procedure
  - ✓ To interview and recruit Pharm. D. students
- TSU COPHS Admission and Academic Standards Committee Dismissal Appeal Subcommittee member 2010-current
  - ✓ To evaluate and vote on dismissal appeals
- TSU COPHS Ad Hoc Faculty Search Committee, Chair 2016-current
  - ✓ To select and hire qualified faculty to our college
- Graduate Program in TSU COPHS Pharmaceutical Sciences Admission Committee, chair 2009-current
  - ✓ To interview and recruit Ph.D. students
  - ✓ To review and vote on admission of Ph.D. students
- Graduate Program in TSU COPHS 2009-current
  - ✓ To provide general governance to Ph.D. program
  - ✓ To teach students (outside lab & didactic) to read papers, formulate hypothesis, input data and prepare presentations
- TSU COPHS Assessment, Evaluation and Improvement Committee (AEIC) member 2010-current
  - ✓ To improve COPHS academic programs
  - ✓ To coordinate delivery of timely communication and reporting
  - ✓ To promote culture assessment
- TSU COPHS Professionalism and Faculty/Student Relationships Committee member 2010-current
  - ✓ To improve COPHS professionalism
  - ✓ To facilitate faculty and student communication and relationship
- Pharm. D. Students Advisory Board member 2009-current
  - ✓ To provide consultation for selected students to improve their academic status

**Service to the Profession/Academic Discipline**

- Rho Chi Honor Society in Pharmacy student advisor 2008-2014
  - ✓ To provide suggestions to Rho Chi society members
  - ✓ To interview candidates and attend the initiative ceremony
  - ✓ To participate students activities
- Gulf Coast Consortia Faculty Representative 2009-current
  - ✓ To participate research collaborative meetings and promote TSU to the other 6 major universities of this consortia
- Research Centers in Minority Institutions (RCMI) Translational Research Network 2009-current
  - ✓ To participate research collaborative meetings and promote activities for Cancer Section among 18 minority institutions in this network

# Munder Zagaar PharmD, PhD

Associate Professor  
Texas Southern University  
College of Pharmacy and Health Sciences  
Department of Pharmacy Practice and Clinical Health Sciences  
Texas Southern University  
3100 Cleburne St. Houston, TX 77004

Phone: (713)-313-1236  
Email: Munder.Zagaar@tsu.edu

## Professional Experience

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**Associate Professor (Tenured)** 2018-present  
**Assistant Professor** 2012-2018

Department of Pharmacy Practice and Clinical Health Sciences  
College of Pharmacy and Health Sciences  
Texas Southern University

*Clinical Pharmacy Services*  
*San Jose Clinic Charity Clinic* 2017-present  
Park Plaza Hospital Acute Care for Elderly (ACE) unit 2012-2016

*Adjunct Assistant Professor*  
Department of Pharmaceutical Sciences

**Adjunct Assistant Professor-Department of Medicine** 2013- present  
Section of Geriatrics  
Baylor College of Medicine

**Graduate Assistant Professor** 2013-2015  
Regular Graduate Faculty  
The Graduate School  
Texas Southern University

**Community Pharmacist** 2009 –2012  
Target Pharmacy

**Graduate Teaching Assistant** 2006 –2011  
Department of Pharmacological & Pharmaceutical Sciences  
University of Houston

## Education

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**PharmD**, University of Houston, Houston, TX 2009  
College of Pharmacy, *Cum Laude*  
**PhD**, University of Houston, Houston, TX 2011  
Department of Pharmacological and Pharmaceutical Studies

## Research Support

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**University of Texas at El Paso BUILDing Scholars Summer Sabbatical Award-** mentor: Dr. Maria Eugenia Fernandez- Esquer at UT Health, School of Public Health in Houston. Our research project aims to investigate the extent to which discrimination distress in Latinos is associated with nondiabetic glycemic control (i.e.HbA1c). May 2016

**Seed grant:** A Study of the Metabolism and Pharmacology of Several Unusual Synthetic Cannabinoids (Co-investigator) 2013-2014

## Skills and Certificates

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Registered Texas Pharmacist: License # 47384	Expires: Oct 31, 2020
Licensed Texas Preceptor	
Certificate of Teaching for Health Professions	2015
Medication Therapy Management Certification	2013
Pharmacy-Based Immunization Delivery	2009
Sterile Products Certification- 24 Contact Hours	2007
Arabic Language- Conversational	

## Research skills and certificates

**Animal Surgery, Electrophysiology, Behavioral assessment, Bio-molecular techniques, Pharmacological manipulation, Cell Culture techniques, Analytical Software:** GraphPad Prism, FluorChem, pCLAMP

## Peer-reviewed Publications

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1. Das J, Fernandez J, Shah D, Williams L, **Zagaar M**. Case-based studies in teaching medicinal chemistry in PharmD curriculum: Perspectives of students, faculty, and pharmacists from academia. *Curr Pharm Teach Learn*. 2018 Jan - Feb;10(1):85-89. *PMID: 29248080*
2. AT Dao, **MA Zagaar**, AT Levine, KA Alkadhi. Comparison of the effect of exercise on late-phase LTP of the dentate gyrus and CA1 of Alzheimer's disease model. *Mol Neurobiol*. 2016 Dec;(53) 6859-6868. *PMID:25288155*
3. **Zagaar MA**, Dao AT, Alhaider I, Alkadhi KA. "Prevention by Regular Exercise of Acute Sleep Deprivation-Induced Impairment of Late Phase LTP and Related Signaling Molecules in the Dentate Gyrus. *Mol Neurobiol*. 2016 Jul; (53)2900-10 *PMID:25902862*
4. AT Dao, **MA Zagaar**, KA Alkadhi. Moderate Treadmill Exercise Protects Synaptic Plasticity of the Dentate Gyrus and Related Signaling Cascade in a Rat Model of Alzheimer's Disease. *Mol Neurobiol*. 2014 Oct; 1-10. (*E-pub ahead of print*) *PMID:25288155*
5. Dao AT, **Zagaar MA**, Salim S, Eriksen JL, Alkadhi KA. "Regular exercise prevents non-cognitive disturbances in a rat model of Alzheimer's disease." *Int J Neuropsychopharmacol*. 2014 Apr;17(4):593-602. *PMID:24229510*
6. Alkadhi K, **Zagaar M**, Alhaider I, Salim S, Aleisa A. "Neurobiological consequences of Sleep Deprivation" *Curr Neuropharmacol* 2013 May;11(3):231-49. *PMID: 24179461*
7. **M Zagaar**, A Dao, I Alhaider, K Alkadhi. Regular treadmill exercise prevents sleep deprivation-induced disruption of synaptic plasticity and associated signaling cascade in the dentate gyrus. *Mol Cell Neurosci* 2013 Sep; (56):375-83. *PMID: 23911794*
8. **Zagaar M**, Alhaider I, Dao A, Levine A, Alkarawi A, Alzubaidy M, Alkadhi K." Regular exercise prevents sleep deprivation associated impairment of long-term memory, and late phase LTP in theCA1 area of the hippocampus." *Sleep* 2013 May 1; 36 (5) :751-61. *PMID: 23633758*
9. Dao AT, **Zagaar MA**, Levine A, Salim S, Eriksen J, Alkadhi KA. "Treadmill exercise prevents learning and memory impairment in Alzheimer's disease-like pathology." *Curr Alzheimer Res*. 2013 Jun;10(5):507-15 *PMID:23627709*
10. **Zagaar M**, Alhaider I, Dao A, Levine A, Alkarawi, A, Alzubaidy M, Alkadhi K "The beneficial effects of regular exercise on cognition in REM sleep deprivation: Behavioral, electrophysiological and molecular evidence" *Neurobiol. Dis*. 2012 Mar;45(3):1153-62. *PMID: 22227452*

11. Vollert C, **Zagaar M**, Hovatta I, Taneja M, Vu A, Dao A, Levine A, Alkadhi K, Salim S. "Exercise prevents sleep deprivation-associated anxiety-like behavior in rats: Potential role of oxidative stress mechanisms". *Behav Brain Res*. 2011 Oct 31;224(2):233-40 *PMID:2162156*

Peer-reviewed Book Chapters

12. Alkadhi K, **Zagaar M**, Alhaider I, Alzoubi, K. "Neuroprotective effects of caffeine in sleep deprivation" in *Royal Society of Chemistry's Food and Nutritional Components in Focus No. 2 Caffeine: Chemistry, Analysis, Functions and Effects*. V, Preedy Ed., Aug 2011.

Other Publications:

1. Zagaar MA, Anadu-Ndefo U. Medication Nonadherence in the Latino Population: A Challenge and an Opportunity for Specialized Services. *Pharmacy Times*. <http://www.pharmacytimes.com/news/medication-adherence-in-the-latino-population>. Published January 9, 2017.

## Teaching Activities

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### *Texas Southern University College of Pharmacy and Health Sciences*

2012-present	Course coordinator/Instructor, PHAR 542/504 "Pharmacotherapy IA: Nervous System & Psychiatric Disorders" (PharmD; P2 Spring/Fall)
	Instructor, PHAR 510/512, "Pharmacotherapy Skills Lab I/Integrated Skills Lab" (PharmD; P2 Spring)
	Instructor, PHAR 642, "Pharmacotherapy V: Pharmacotherapy of Hepatic Encephalopathy" (PharmD; P3 Spring)
	Instructor, PHAR 421, "Pharmacy Practice I Professional Communication" (PharmD; P1 Fall)
	Guest Lecturer, PHS 912 "Neuropharmacology of sleep and arousal" (graduate)
	Instructor, PHAR 643, "Pharmacotherapy of Endocrine disorders" PharmD; P3 Spring)
	Instructor, PHAR 412, "Pharmacy Practice II Dispensing Skills Lab" (PharmD; P1 Spring)

### *University of Houston College of Pharmacy- PharmD curriculum*

2008-2011	Teaching Assistant, "Organs Systems Life Sciences (Neuroanatomy & Neurophysiology)" Teaching Assistant, "Cellular Life Sciences II (Immunology)", Teaching Assistant, "Functional Group Analysis (Medicinal Chemistry)"
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## Academic Service

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### *College of Pharmacy and Health Sciences Committee Service (TSU)*

2018-Present	College of Pharmacy and Health Sciences Dean Search Committee Committee for Continuing Professional Education Sub-Committee for Continuing Pharmacy Education Pharmacy Administration and Administrative Health Sciences (PAAHS) Rank and Tenure Committee Departmental and Program Curriculum Subcommittees
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2015-2018      **Chair** of Curriculum Committee College of Pharmacy and Health Sciences  
2014-2018      Committee for Professionalism  
2013-2016      Skills Lab coordinator sub-committee

## **Professional Services**

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### ***Journal Reviewing***

Psychoneuroendocrinology

Neuroscience

### **Conference Poster Presentations**

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Mozayani A, **Zagaar M**, Dip A, Collins S. The first in-vivo metabolism study of synthetic cannabinoid AB-FUBINACA with rats to be presented at American Academy of Forensic Science 67th annual meeting Orlando, FL Feb 2015.

**Zagaar M**, Alhaider I, Dao, A, Levine A. Effect of regular treadmill exercise on hippocampal LTP impairment in acutely sleep-deprived rats presented at Society for Neuroscience Annual meeting Washington D.C. Nov 2011

**Zagaar M**, Alhaider I, Dao, A, Levine A. Regular exercise prevents hippocampal learning and memory impairment in acute sleep deprivation presented at Society for Neuroscience Annual meeting San Diego, CA Nov 2009

### **Formal Presentations**

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"Characterization of the Metabolism and Cognitive Effects of Synthetic Cannabinoids" Winter **Interdisciplinary Seminar** for Texas Southern University Faculty, Feb 18, 2014

"Optimizing Drug use in the Elderly" Seminar for Texas Southern University Faculty and students. August 7, 2012

"The Beneficial Effects of Exercise in Cognitive Decline" Faculty Seminar for Texas Southern University Faculty. August 7, 2012

# YUN ZHANG, PH.D.

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## EDUCATION AND TRAINING

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### Postdoctoral Training

<b>University of Texas M.D. Anderson Cancer Center</b> , Houston, TX Genetics	Feb 2015
<b>Ph.D. Columbia University</b> , New York, NY Neurobiology/Biophysics	Feb 2009
<b>M.Phil. The Hong Kong University of Science and Technology</b> , Hong Kong, China Neuroscience	Nov 2002
<b>B.Sc. Zhejiang University</b> , Hangzhou, Zhejiang, China Biological Science and Technology	Jun 2000

## ACADEMIC APPOINTMENTS

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<b>Assistant Professor</b> Texas Southern University, College of Pharmacy	Sept 2017-Present
<b>Instructor</b> University of Texas M.D. Anderson Cancer Center, Department of Genetics	Feb 2015-Aug 2017
<b>Adjunct Faculty</b> Houston Community College Southwest College, Department of Biology	Jan-Dec 2015
Lone Star College-University Park, Biology Department	Aug-Dec 2014

## GRANTS, HONORS AND AWARDS

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<b>TSU Seed Grant</b> , Texas Southern University, Houston, TX	2018-2019
<b>Odyssey Fellowship</b> , MD Anderson Cancer Center, Houston, TX	2010-2013
<b>Faculty Fellowship</b> , Columbia University, New York, NY	2002-2008
<b>Teaching Fellowship</b> , The Hong Kong University of Science and Technology, Hong Kong	2000-2002
<b>Graduating with Honors</b> , Zhejiang University, Zhejiang, China	Jun 2000
<b>1<sup>st</sup> Rank in The National College Entrance Exam of Chinese Language and Literature</b> , Guizhou, China	Jul 1996

## ACADEMIC SERVICES

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<b>Curriculum Committee Member</b> Texas Southern University, College of Pharmacy,	Sept 2017-Present
<b>Facilities and Resources Committee Member</b> Texas Southern University, College of Pharmacy	Sept 2018-Present

**2018 RCMI Symposium Planning Committee Member**

Jan-Mar 2018

Texas Southern University, College of Pharmacy

**Journal Reviewer**

2013-2017

Molecular Pharmacology, International Journal of Gastroenterology, Molecular Neurobiology, Acta Pharmacologica Sinica, PLOS One, Neurochemical Research

**TEACHING AND MENTORING EXPERIENCE**

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**Courses Taught**

<b>Phar 426 Pathophysiology</b> , Texas Southern University,	Fall 2018
<b>Phar 912 Neuropharmacology</b> , Texas Southern University,	Fall 2018
<b>PHS 809 Pharmacology</b> , Texas Southern University,	Spring 2018
<b>PHS 800 Bioethics</b> , Texas Southern University,	Spring 2018
<b>PHS 904 Genetics and Pharmacogenomics</b> , Texas Southern University,	Fall 2017
<b>HS4161 Healthcare Seminar course</b> , U.T. MD Anderson Cancer Center	Spring 2015, 2016 & 2017
<b>Biol 1406 Biology I (lecture and lab)</b> , Houston Community College.	Spring & Fall 2015
<b>Biol 1408 Biology I (lecture and lab)</b> , Lone Star College.	Fall 2014

**First Year Ph.D. Student Research Mentored**

Imoh Etim, Texas Southern University, College of Pharmacy	Summer 2018
Dhruv Chachad, UT MD Anderson Cancer Center	Fall 2016
Sydney Moyer, UT MD Anderson Cancer Center	Spring 2016
Yushu Chen, Columbia University, Department of Biological Sciences	Fall 2006

**Undergraduate Research Mentored**

Francis Celii, UT MD Anderson Cancer Center,	Summer 2013
Sophia Hu, UT MD Anderson Cancer Center,	Summer 2012
Saroja D. Bangaru, Columbia University,	Fall 2007-Fall 2008
Philip Y. Lam, The Hong Kong University of Science and Technology,	Fall 2001-Summer 2002

**PUBLICATIONS**

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**Zhang Y.**, Xiong S., Liu B., Pant V., Celii F., Chau G, Elizondo-Fraire AC, Yang P, You MJ, El-Naggar AK, Navin NE, Lozano G., Somatic Trp53 mutations differentially drive breast cancer and evolution of metastases., *Nat. Commun*, 9(1):3953, 2018.

Zhang Y., Hu Q., Li G., Li L., Liang S., **Zhang Y.**, Liu J., Fan Z., Li L., Zhou B., Ruan Y., Yang X., Chen S., Mu T., Wang G., Xiong S., ONZIN upregulation by mutant p53 contributes to osteosarcoma metastasis through the CXCL5-MAPK signaling pathway, *Cell Physiol. Biochem*, 48(3):1099-1111, 2018.

Pourebahimabadi R., **Zhang Y.**, Liu B., Gao RL., Xiong S., Lin PP., McArthur MJ., Ostrowski MC., Lozano G., Integrative genome analysis of somatic p53 mutant osteosarcomas identifies Ets2-dependent regulation of small nucleolar RNAs by mutant p53 protein, *Genes Dev*, 31(18):1847-57, 2017.

Xiong S., Pant V., **Zhang Y.**, Aryal NK., You MJ., Kusewitt D., Lozano G., The p53 inhibitor Mdm4 cooperates with multiple genetic lesions in tumorigenesis, *J Pathol.*, 241(4): 501-510, 2017.

Tashakori M., **Zhang Y.**, Xiong S., You MJ., Lozano G., p53 activity dominates that of p73 upon *Mdm4* loss in development and tumorigenesis, *Mol. Cancer. Res.*, 14(1), 56-65, 2016.

Kim M., **Zhang Y.**, Lozano G., Mutant p53: multiple mechanisms define biological activity in cancer, *Front. Oncol.*, 5(249), 1-6, 2015.

**Zhang Y.**, Xiong S., Li Q., Hu S., Tash M., Van Pelt C., You MJ., Pigeon L., Lozano G., Tissue specific and

age dependent effects of global *Mdm2* loss, *J. Path.*, 233(4), 380-91, 2014.

Li Q., **Zhang Y.**, El-Naggar A., Xiong S., Yang P.R., Jackson J., Chau G., Lozano G., Therapeutic efficacy of p53 restoration in Mdm2-overexpressing tumors, *Mol. Cancer. Res.*, 12(6), 901-11, 2014.

Xiong S., Tu H., Kollareddy M., Pant V., Li Q., **Zhang Y.**, Jackson J.G., Suh Y.A., Elizondo-Fraire A.C., Yang P., Chau G., Tashakori M., Wasylshen A.R., Ju Z., Solomon H., Rotter V., Liu B., El-Naggar A.K., Donehower L.A., Martinez L.A., Lozano G., Pla2g16 phospholipase mediates gain-of-function activities of mutant p53, *Proc. Natl., Acad. Sci. U. S. A.* 111(30):11145-50, 2014

**Zhang Y.**, Yamada Y., Fan M., Bangaru S.D., Lin B.C., Yang J., The  $\beta$  subunit of voltage-gated  $\text{Ca}^{2+}$  channels interacts with and regulates the activity of a novel isoform of Pax6, *J. Biol. Chem.*, 285(4), 2527-36, 2010.

**Zhang Y.**, Chen Y.H., Bangaru S.D., He L.L., Abele K., Tanabe S., Kozasa T., Yang J., Origin of the voltage dependence of G protein regulation of P/Q-type  $\text{Ca}^{2+}$  channels, *J. Neurosci.*, 28(52), 14176-88, 2008.

Michailidis I.E., **Zhang Y.**, Yang J., The lipid connection-regulation of voltage-gated  $\text{Ca}^{2+}$  channels by phosphoinositides, *Pugers. Arch.*, 455(1), 147-155, 2007.

He L.L., **Zhang Y.**, Chen Y.H., Yamada Y., Yang J., Functional modularity of the  $\beta$  subunit of voltage-gated  $\text{Ca}^{2+}$  channels, *Biophys. J.*, 93(3), 834-45, 2007.

Yu A.C., Liu R.Y., **Zhang Y.**, Sun H.R., Qin L.Y., Lau L.T., Wu B.Y., Hui H.K., Heung M.Y., Han J.S., Gial cell line-derived neurotrophic factor protects astrocytes from staurosporine- and ischemia-induced apoptosis, *J. Neurosci. Res.*, 85(15), 3457-64, 2007

Zhen X.G., Xie C., Yamada Y., **Zhang Y.**, Doyle C., Yang J., A single amino acid mutation attenuates rundown of voltage-gated calcium channels, *FEBS Lett.*, 580(24), 5733-8, 2006.

Chen Y.H., Li M.H., **Zhang Y.**, He L.L., Yamada Y., Fitzmaurice A., Shen Y., Zhang H., Tong L., Yang J., Structural basis of the  $\alpha_1$ - $\beta$  subunit interaction of voltage-gated  $\text{Ca}^{2+}$  channels, *Nature*, 429(6992), 675-80, 2004.

Chen X.Q., Chen J.G., **Zhang Y.**, Hsiao W.W., Yu A.C., 14-3-3 $\gamma$  is upregulated by in vitro ischemia and binds to protein kinase Raf in primary cultures of astrocytes, *Glia*, 42(4), 315-24, 2003.

Jiang Z.\*, **Zhang Y.\***, Chen X.Q., Lam P.Y., Yang H., Xu Q., Yu A.C., Apoptosis and activation of Erk1/2 and Akt in astrocytes postischemia, *Neurochem. Res.*, 28(6), 831-7, 2003. (\* **Co-first authors**)

Jiang Z.\*, **Zhang Y.\***, Chen X., Lam P.Y., Yang H., Xu Q., Yu A.C., Activation of Erk1/2 and Akt in astrocytes under ischemia, *Biochem. Biophys. Res. Commun.*, 294(3), 726-33, 2002. (\* **Co-first authors**)

## **CONFERENCE PRESENTATIONS**

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**Zhang Y.**, Xiong S., Liu B., Pant V., Celi F., Chau G, Elizondo-Fraire AC, Yang P, You MJ, El-Naggar AK, Lozano G., Somatic Trp53 mutations differentially drive breast cancer and evolution of metastases., The 17<sup>th</sup> International p53 Workshop, Singapore, Singapore, July 2017.

**Zhang Y\***, Xiong S.B., Pant V., Chau P., Yang P.R., El-Naggar A., Lozano G. P53 missense mutations differentially drive mammary tumorigenesis, 2016 Metastatic Breast Cancer Symposium, Houston, TX, Oct 2016. (\* **Invited Speaker**)

**Zhang Y.** \*, Xiong S.B., Pant V., Chau P., Yang P.R., Lozano G. A mouse model of sporadic cancers caused by a somatic *p53* mutation, 2016 G&D and EMC Joint Fall Retreat, Navasota, TX, Sept 2016. (\* **Invited Speaker**)

**Zhang Y.** \*, Xiong S.B., Pant V., Chau P., Yang P.R., El-Naggar A., Lozano G. A mouse model of sporadic breast tumor with a conditional *p53* mutation, 2015 San Antonio Breast Cancer Symposium, San Antonio, TX, Dec 2015. (\* **Selected Poster Presenter**)

**Zhang Y.**, Xiong S.B., Lozano G., Deleterious effects of *Mdm2* deletion in adult mice, 6th Annual International Mdm2 Workshop, New York, NY, Oct 2011.

**Zhang Y.**, Yamada Y., Fan M., Bangaru S.D., Lin B.C., Yang J., The  $\beta$  subunit of voltage-gated  $\text{Ca}^{2+}$  channels interacts with and regulates the activity of a novel isoform of Pax6, 54th Biophysical Society Meeting, San Francisco, CA, Feb 2010.

**Zhang Y.**, Chen Y.H., Bangaru S.D., He L.L., Abele K., Tanabe S., Kozasa T., Yang J., Origin of the voltage dependence of G protein regulation of P/Q-type  $\text{Ca}^{2+}$  channels, 52nd Biophysical Society Meeting and 16th IUPAB International Biophysics Congress, Long Beach, CA, Feb 2008.

**Zhang Y.**, Chen Y.H., He L.L., Yang J., Mutagenesis study on AID binding domain of  $\beta$  subunits of voltage-gated  $\text{Ca}^{2+}$  channels, The Departmental Mini-Symposium Retreat, New Paltz, NY, Sep 2004.

**Zhang Y.** and Yu A.C., The protective effect of glial cell line-derived neurotrophic factor on ischemia injured astrocytes, Joint Meeting of the International Society for Neurochemistry and the American Society for the Neurochemistry, Buenos Aires, Argentina, Aug 2001.

**Zhang Y.**, Jiang Z.J., Chen X.Q., Xu Q.Y., Yu A.C. Glial cell line-derived neurotrophic factor protects astrocytes from ischemic injury, The International Neuroscience Symposium for the 10th Anniversary of the Hong Kong University of Science and Technology and the Fourth Biennial Meeting of the Chinese Society for Neuroscience, Jul 2001.