

Curriculum Vitae

RUSTIN D. CRUTCHLEY, Pharm.D., AAHIVP
(Last updated July, 2026)

CURRENT CONTACT INFORMATION

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EDUCATION

University of North Texas Health Science Center at Fort Worth, TX	STAR Health Disparities Fellowship	2009-2010
State University of New York at Buffalo Buffalo, NY	PGY2-HIV Specialty Residency	2007-2008
University of Texas Health Science Center at Tyler, TX	PGY1-Pharmacy Practice Residency	2006-2007
University of North Carolina at Chapel Hill Chapel Hill, NC	Doctorate of Pharmacy	2002-2006
Duke University Durham, NC	Bachelor of Science in Biology Chemistry Minor	1997-2001

ACADEMIC APPOINTMENTS

University of Texas at Tyler Ben and Maytee Fisch College of Pharmacy Tyler, TX	Clinical Professor	2026-
Manchester University College Health Sciences and Pharmacy Fort Wayne, IN	Director of Pharmacogenomics, Professor of Pharmaceutical Sciences and Graduate Life Sciences	2023
Washington State University College of Pharmacy and Pharmaceutical Sciences Yakima, WA	Program Director, Interprofessional Clinical Pharmacogenomics Certificate Program	2022-2023
Washington State University College of Pharmacy and Pharmaceutical Sciences Yakima, WA	Scholarly Associate Professor	2017-2023

University at Buffalo Department of Pharmacy Practice School of Pharmacy and Pharmaceutical Sciences HIV Pharmacotherapy Continuing Education and Certificate Program Buffalo, NY	Contributing Faculty and Faculty Reviewer	2011-
Heritage University Master of Arts in Medical Sciences (MAMS) Toppenish, WA	Adjunct Faculty	2019-2020
University of Houston College of Pharmacy Houston, TX	Clinical Associate Professor	2015-2017
University of Houston College of Pharmacy Houston, TX	PGY-2 HIV Ambulatory Care/ Clinical Pharmacogenetics Residency Program Director	2014-2017
University of Houston College of Pharmacy Houston, TX	Clinical Assistant Professor	2008-2015

INTERNATIONAL ACADEMIC APPOINTMENTS

University of Western Cape School of Pharmacy Cape Town, South Africa	Extraordinary Professor	2023-
University of Western Cape School of Pharmacy Cape Town, South Africa	Research Fellow	2020-2023
University of The West Indies College of Pharmacy Mona Campus, Kingston, Jamaica	External Examiner	2017-2020

CLINICAL EXPERIENCE

Clinical Pharmacist III Texarkana, TX	CHRISTUS St Michael Hospital	2024-2026
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Description of Duties: as an internal medicine clinical pharmacist covering an average daily census of 60 patients in a 400 bed, acute healthcare setting my daily clinical responsibilities have included the following: opioid, antimicrobial and anticoagulation stewardship, pharmacokinetic dosing support on neurologic agents, renal dosing, total parenteral nutrition support, IV to PO conversions, and evaluation of drug-drug interactions; executed additional clinical interventions such as resolution of adverse drug events using Vigilanz reporting system; provided clinical consultation and clarification to practitioners as appropriate regarding management of various disease states; offered drug education to patients and their families per institutional protocol; prepared and dispensed drug orders per physician request according to established policies,

procedures and protocols; interpreted drug orders (verbal and written) and transcribed/verified into computerized patient medication record accurately; and maintained, accurate, and complete patient drug record.

Comprehensive Healthcare
Yakima, WA

Clinical Psychiatric Pharmacist/ 2020-2022
Pharmacogenomics (NPI 1194315721)

Description of Duties: *performed medication reconciliation, provided recommendations to clinicians regarding evaluation and management of clinically actionable drug-gene interactions, drug-drug gene interactions, clinically relevant drug-drug interactions, ordering of pharmacogenomic testing, and smoking cessation counseling for patient specific needs mostly in the therapeutic area of mental health; developed a smoking cessation protocol and presented this to leadership for implementation in the clinical setting; and evaluated the prevalence of different phenotype frequencies of various pharmacokinetic and pharmacodynamic markers including drug-gene interactions in an ethnically diverse population from outpatient behavioral healthcare clinical settings in Central Washington.*

CompanionDX
Houston, TX

PRN Pharmacogenomics Pharmacist 2013-2016

Description of Duties: *provided recommendations to clinicians regarding evaluation and management of clinically actionable drug-gene interactions, drug-drug gene interactions, and clinically relevant drug-drug interactions for patient specific needs across broad disease states; and developed a comprehensive summary of clinical decision support recommendations for antiretrovirals.*

Therapeutic Concepts, Inc
(Private Adult HIV Clinic)
Houston, TX

HIV Clinical Pharmacist 2008-2017

Description of Duties: *performed medication reconciliation, adherence counseling, provided recommendations to clinicians regarding optimization of antiretroviral regimens and other pharmacotherapy for multiple disease states related to major pharmacy interventions such as therapeutic duplication, dosing, drug-drug interactions, adverse effects, monitoring/evaluation/ordering of laboratory parameters including HIV surrogate markers CD4 cell count and HIV viral load, antiretroviral resistance testing, and pharmacogenomic testing; precepted pharmacy students (shadowing, introductory and advanced pharmacy practice experiences (IPPEs/APPEs), PGY1 residents and fellows); established a new PGY2 HIV Ambulatory Care/Clinical Pharmacogenetics residency program at the University of Houston and served as director and preceptor for these residents who shared in these responsibilities described above from 2014-2017; and participated in and led various clinical translational research projects.*

Texas Children's Hospital
(Retrovirology/HIV Pediatric Clinic)

HIV Clinical Pharmacist 2009-2017

Description of Duties: *performed medication reconciliation, adherence counseling, provided recommendations to clinicians regarding optimization of antiretroviral regimens and other pharmacotherapy for multiple disease states related to major pharmacy interventions such as therapeutic duplication, dosing, drug-drug interactions, adverse*

effects, monitoring/evaluation/ordering of laboratory parameters including HIV surrogate markers CD4 cell count and HIV viral load, antiretroviral resistance testing, and pharmacogenomic testing; participated in and contributed to Tuesday morning rounds that discussed scheduled infant/pediatric/adolescent patient clinic visits for the week; precepted pharmacy students (APPEs), PGY1 residents and fellows; and established a new PGY2 HIV Ambulatory Care/Clinical Pharmacogenetics residency program at the University of Houston and served as director and preceptor for these residents from 2014-2017 who shared in these responsibilities.

Erie County Medical Center Buffalo, NY	Inpatient Pharmacist	2007-2008
University of Texas Health Science Center Tyler, TX	Inpatient Pharmacist	2006-2007

RESEARCH WORK EXPERIENCE

Analytical Core Laboratory University of North Carolina Chapel Hill, NC	Research Technician II	2002-2005
Neuroscience University of Texas Southwestern Medical Center, Dallas, TX	Research Technician II	2001-2002
Dermatology Laboratory Duke University Medical Center Durham, NC	Lab Assistant	1997

LICENSURES/CREDENTIALING

- Pharmacist licensure Texas #44797
(since October 2006; expires 1/31/2027)
- American Academy of HIV Medicine Pharmacist (AAHVP)
(credentialing since 2008; expires 12/31/2026)

CERTIFICATES

- Basic Life Support Certificate
(completed 7/2024)
- Advanced Cardiovascular Life Support Certificate
(completed 7/2024)
- National Sterile Compounding (IV) training certificate
(completed 3/2024)
- Mental Health First Aid (MHFA) training certificate
(completed 5/2019)

- ACCP Academy Certificate Program Precision Medicine: Applied Pharmacogenomics (completed 11/2018)
- Pharmacogenomics and Personalized Medicine Certificate (University of Florida, completed 3/2017)
- American Pharmacists Association (APhA's) The Pharmacist & Patient-Centered Diabetes Care Certificate Training Program (completed 2014)
- Attendance of PGY2 New and Existing Programs RLS Workshop at ASHP 2014 National Pharmacy Preceptors Conference in Washington DC
- HIV Pharmacotherapy Certificate Program (SUNY-Buffalo, completed 2008)
- Teaching and Learning Certificate (SUNY-Buffalo, completed 2008)
- APhA's Pharmacy-Based Immunization Delivery: A Certificate Training Program for Pharmacists (UNC-Chapel Hill School of Pharmacy, completed in 2004)

PEER-REVIEWED PUBLICATIONS (listed in reverse chronological order)

Published Manuscripts

1. Keuler, N., McCartney, J., **Crutchley, R.** and Coetzee R. International Expert Perspectives on Pharmacogenomics in Pharmacy Education: A Qualitative Study with Implications for South Africa. *Frontiers in Pharmacology*. 2026; *In press*.
2. Keuler, N., McCartney, J., Coetzee, R. and **Crutchley, R.** Exploring experiential learning opportunities in pharmacogenomics for pharmacy education. *Pharmacogenomics*. 2025; 26 (15-16):1-9. DOI: 10.1080/14622416.2025.2601206.
3. Keuler, N., McCartney, J., Coetzee, R., & **Crutchley, R.** Exploring the Clinical Workflow in Pharmacogenomics Clinics: An Observational Study. *Journal of Personalized Medicine*. 2025; 15(4):146. <https://doi.org/10.3390/jpm15040146>.
4. Daniel L Hertz, Chad Bousman, Howard L McLeod, Andrew Monte, Deepak Voora, Lori A. Orlando, **Rustin D Crutchley**, Benjamin Brown, Wrenda Teeple, Sara Rogers, and Jai N Patel. Recommendations for Pharmacogenetic Testing in Clinical Practice Guidelines in the US. *American Journal of Health-System Pharmacy*. 2024 Apr 23:zxae110. doi: 10.1093/ajhp/zxae110.
5. Kimberly C. McKeirnan, Sorosh Kherghehpoush, Kavya Vaitla, **Rustin D. Crutchley**, and Angie Gladchuk. Evaluating student pharmacist knowledge, attitudes, and confidence in caring for paediatric patients with HIV. *Pharmacy Education* 2023; 23(1): 368-375.
6. Justina Lipscomb, Marina Gálvez-Peralta, Cheryl D. Cropp, Elina Delgado, **Rustin Crutchley**, Diane Calinski, and Otito Iwuchukwu. A genetics-focused lens on social

constructs in pharmacy education. *American Journal of Pharmaceutical Education* 2023; <https://doi.org/10.1016/j.ajpe.2023.100077>.

7. Teresa Ho, Melissa Noble, Bao Anh Tran, Katlynd Sunjic, Sheeba Varghese Gupta, Jacques Turgeon, and **Rustin D. Crutchley**. Clinical impact of CYP2C19 gene on diazepam for management of alcohol withdrawal syndrome. *Journal of Personalized Medicine* 2023; 13(2), 285; <https://doi.org/10.3390/jpm13020285>.
8. Gina M. Prescott, Lauren Jonkman, **Rustin D. Crutchley**, Surajit Dey, Lisa T. Hong, Jodie Malhotra, See-Won Seo, Marina Kawaguchi-Suzuki, Hoai-An Truong, Elizabeth Unni, Kayo Tsuchihashi, Nubaira Forkan, and Jeanine P. Abrons. Characteristics of Successful International Pharmacy Partnerships. *Pharmacy* 2023; 11(1), 7. <https://doi.org/10.3390/pharmacy11010007>.
9. Kimberly McKeirnan, Sorosh Kherghehpoush, Angie Gladchuk, Shannon Patterson, Amy Min, and **Rustin Crutchley**. Student perceptions of PrEP in an advanced HIV elective. *Pharmacy Education*. 2022; 22(1): 936-943.
10. Alexa Vyain Zhao, **Rustin D. Crutchley**, Rakesh Chowdary Guduru, Kathy Ton, Tammie Lam, and Amy Cheng Min. A Clinical Review of HIV Integrase Strand Transfer Inhibitors (INSTIs) for the Prevention and Treatment of HIV-1 Infection. *Retrovirology*. 2022;19(1):22. doi: 10.1186/s12977-022-00608-1.
11. **Rustin D. Crutchley**, Cheyenne Newsome, Li Wei Chen, Debbie Li, Preeyaporn Sarangarm, Amy Min, Dana Bowers, Renier Coetzee, and Kimberly McKeirnan. Design, Implementation, and Assessment Approaches Within an Advanced Human Immunodeficiency Virus (HIV) Elective Course. *J Pharm Pract*. 2022; 8971900221108723. doi: 10.1177/08971900221108723.
12. Prince N. Dlozi, Angelina Gladchuk, **Rustin D. Crutchley**, Nicole Keuler, Renier Coetzee, Admire Dube. Cathelicidins and defensins antimicrobial host defense peptides in the treatment of TB and HIV: Pharmacogenomic and nanomedicine approaches towards improved therapeutic outcomes. *Biomed Pharmacother*. 2022; 151:113189. doi: 10.1016/j.biopha.2022.113189.
13. **Crutchley RD** and Keuler N. Sub-Analysis of CYP-GUIDES Data: Assessing the Prevalence and Impact of Drug-Gene Interactions in an Ethnically Diverse Cohort of Depressed Individuals. *Front. Pharmacol*. 2022; 13:884213. doi:10.3389/fphar.2022.884213.
14. Jennifer M. Bingham, Veronique Michaud, Kristin Wiisanen, Jill Bates, Anthony P. Morreale, Philip E. Empey, **Rustin D. Crutchley**, Ghada Elnashar, Jane Gilbert and Jacques Turgeon writing on behalf of the Get the Medications Right Institute. Improving Patients' Outcomes through the Integration of Pharmacogenomic Testing into Comprehensive Medication Management Care Models. *Journal of Precision Medicine*. 2021;7(3):1-9.
15. **Rustin D. Crutchley**, David M. Jacobs, Joseph Gathe, Carl Mayberry, Nataliya Bulayeva, Kevin P. Rosenblatt, and Kevin W. Garey. Vitamin D assessment over 48 weeks in treatment-naïve HIV individuals starting lopinavir/ritonavir monotherapy. *Current HIV Research*. 2021;19 (1):61-72, doi: 10.2174/1570162X18666200827115615.
16. Hwang GS, Bhat R, **Crutchley RD**, Trivedi MV. Impact of CYP2D6 polymorphisms on endoxifen concentrations and breast cancer outcomes. *Pharmacogenomics J*. 2018; 18(2):201-208.

17. McCoy C, Badowski M, Sherman E, **Crutchley R**, Smith E, Chastain DB, and for the Society of Infectious Diseases Pharmacists. Strength in Amalgamation: Newer Combination Agents for HIV and Implications for Practice. *Pharmacotherapy*. 2018; 38(1):86-107.
18. Kuten SA, Patel, SJ, Baru A, Gaber AO, **Crutchley RD**, Ramanathan V, Knight RJ. Belatacept conversion in an HIV-positive kidney transplant recipient following anti-thymocyte globulin induction. *Transpl Infect Dis*. 2017; 19(5). doi: 10.1111/tid.12748
19. Amy M. Cheng, **Rustin D. Crutchley**, Meghann L. Davis, Carl Mayberry, and Joseph C. Gathe Jr. Viral Suppression in the Setting of Multidrug Resistance to Nelfinavir, Tenofovir, and Abacavir: A Case Report. *Journal of AIDS & Clinical Research*. 2017; 8(4): DOI: 10.4172/2155-6113.1000683
20. **Crutchley RD**, Guduru RC, and Cheng AM. Evaluating the role of atazanavir/cobicistat and darunavir/cobicistat fixed-dose combinations for the treatment of HIV-1 infection. *HIV/AIDS-Research and Palliative Care*. 2016; 8:47-65.
21. Patrick G. Clay and **Rustin D. Crutchley**. Noninfectious diarrhea in HIV seropositive individuals: a review of prevalence rates, etiology, and management in the era of combination antiretroviral therapy. *Infectious Diseases and Therapy*. 2014; 3:103-122.
22. Patel TS, **Crutchley RD**, Tucker AM, Cottreau J, Garey KW. Crofelemer for the treatment of chronic diarrhea in patients living with HIV/AIDS. *HIV/AIDS-Research and Palliative Care*. 2013; 15(5):153-62.
23. QM Yeo, **R Crutchley**, J Cottreau, A Tucker, and KW Garey. Crofelemer, a novel anti-secretory agent approved for the treatment of HIV-associated diarrhea. *Drugs Today (Barc)*. 2013; 49(4):239-52.
24. **Crutchley RD**, Gathe J, Mayberry C, Trieu A, Abughosh S, Garey KW. Risk Factors for Vitamin D Deficiency in HIV-Infected Patients in the South-Central United States. *AIDS Res Hum Retroviruses* 2012; 28(5):454-9.
25. Jessica Cottreau, Anne Tucker, **Rustin Crutchley**, and Kevin W Garey. Crofelemer for the treatment of secretory diarrhea. *Expert Review of Gastroenterology & Hepatology*. 2012; 6(1):17-23.
26. Abughosh S, Wu IH, Hawari F, Peters RJ, Yang M, **Crutchley R**, Essien EJ. Cigarette Smoking among Jordanian Adults. *J Ethn Subst Abuse*. 2012; 11(2):101-112.
27. Abughosh S, Wu IH, Hawari F, Peters RJ, Yang M, **Crutchley R**, Essien EJ (2011) Predictors of Intention to Quit Cigarette Smoking among Jordanian Adult. *Epidemiol* 1:103. doi:10.4172/2161-1165.1000103.
28. Abughosh S, Wu IH, Peters RJ, Essien EJ, **Crutchley R** (2011) Predictors of Persistent Waterpipe Smoking Among University Students in The United States. *Epidemiol* 1:102. doi:10.4172/2161-1165.1000102.
29. **Rustin D. Crutchley**, Qing Ma, Adel Sulaiman, Jill Hochreitter, and Gene D. Morse. Within patient atazanavir trough concentration monitoring in HIV-1 infected patients. *Journal of Pharmacy Practice* 2010; 24(2):216-22.
30. **RD Crutchley**, Miller J, Garey KW. Crofelemer, a novel agent for treatment of secretory diarrhea. *Ann Pharmacother* 2010; 44(5):878-84.

31. **Rustin D. Crutchley**, Amy Brilliant, Patty Fan-Havard, and Eugene Morse. Maraviroc, Antiretroviral Agents, Antiretroviral Therapy. www.antimicrobe.org. HIV Clinical Manual. 2009.
32. Kristi M. Kuper, Elizabeth B. Hirsch, and Vincent H. Tam, on behalf of the Houston Infectious Diseases Network. Significant publications on infectious diseases pharmacotherapy in 2008. *Am J Health-Syst Pharm*. 2009; 66:1726-34.
33. Rezk NL, **Crutchley RD**, Yeh RF, Kashuba AD. Full validation of an analytical method for the HIV-protease inhibitor atazanavir in combination with 8 other antiretroviral agents and its applicability to therapeutic drug monitoring. *Ther Drug Monit*. 2006; 28(4): 517-25.
34. Rezk NL, **Crutchley RD**, Kashuba AD. Simultaneous quantification of emtricitabine and tenofovir in human plasma using high-performance liquid chromatography after solid phase extraction. *J Chromatogr B Analyt Technol Biomed Life Sci*. 2005; 822(1-2): 201-208.

Book Chapters

35. **Crutchley RD**, Min AC. Human immunodeficiency virus. In: Benavides S, Nahata MC, eds. *Pediatric Pharmacotherapy*. 2nd ed. Lenexa, KS: American College of Clinical Pharmacy; 2020; 749–799.
36. **Crutchley RD**, Felton CM. Human immunodeficiency virus. In: Benavides S, Nahata MC. *Pediatric Pharmacotherapy*. Lenexa, KS: American College of Clinical Pharmacy, 2013:634-69.

Non-peer reviewed manuscripts or popular press

1. WSU scientist: Serious questions for scientist who claims to have gene-edited embryos. The Spokesman-Review. Spokane, Washington. November 18, 2018.
2. Simplified regimen approved for patients with virologically suppressed HIV-1. *Pharmacy Today*. February 2018 Volume 24, Issue 2, Page 27.
3. Participated (as Pharmacist representative) with other healthcare members from Baylor International Pediatric AIDS Initiative (BIPAI) at Texas Children's Hospital in Adherence Voice Recording Script requested by World Health Organization (WHO). Purpose of this short recording was to assist WHO in producing a healthcare provider voice recording about supporting medication adherence for Adolescents with HIV (ALHIV) that they animated as part of a toolkit on pediatric/adolescent HIV care. Recording completed in November, 2013

Research Abstracts (listed in reverse chronological order)

1. Keuler N, McCartney J, Coetzee R, **Crutchley R**. Designing a Pharmacogenomics Curriculum Framework for Pharmacy Education in South Africa. Clinical Pharmacogenomics Implementation Consortium Meeting. Chicago, USA. September 2026.
2. Keuler N, McCartney J, Coetzee R, **Crutchley R**. Exploring experiential learning opportunities for pharmacogenomics in pharmacy education. ISSX Africa workshop – Africa's journey in pharmacogenomics and DMPK: Exploring progress and potential. Johannesburg, South Africa. March 2025.

3. Keuler N, McCartney J, Coetzee R, Donnelly R, **Crutchley R**. Designing a Pharmacogenomics Curriculum Framework for Pharmacy Education in South Africa. Clinical Pharmacogenomics Implementation Consortium Meeting. Philadelphia, USA. July 2024.
4. Jonkman L, Forkan N, Tsuchihashi K, Abrons JP, **Crutchley R**, Dey S, Hong L, Malhotra J, Seo SW, Suzuki M, Truong HA, Unni E, Prescott GM. Characteristics of successful international partnerships based on the five pillars of global health engagement. 80th International Pharmaceutical Federation (FIP) World Congress of Pharmacy and Pharmaceutical Sciences Annual Meeting. Seville, Spain, September 2022.
5. Gina M. Prescott, Jeanine P. Abrons, **Rustin D. Crutchley**, Surajit Dey, Lisa T. Hong, Jodie Maholtra, See-Won Seo, Marina Suzuki, Hoai-an Truong, Elizabeth Unni, Lauren Jonkman. Developing a qualitative approach to assess partnerships using the five pillars of global health engagement. AACP Annual Meeting. Grapevine, TX, July 2022.
6. **Rustin D. Crutchley** and Lauren Marcat. Pharmacy student perceived confidence and abilities in an Advanced Clinical Pharmacogenomics Elective. AACP Annual Meeting. Grapevine, TX, July 2022.
7. Angie Gladchuk, Sorosh Kherghehpoush, Kimberly McKeirnan, **Rustin Crutchley**, Amy Min. Assessing Knowledge, Confidence, and Perceptions of Pharmacy Students Receiving PrEP and PEP Instruction in Advanced HIV Elective. 57th ASHP Virtual Meeting. December 2021.
8. Nicole Keuler, **Rustin Crutchley**. Foundations in Clinical Research program. Sub-analysis of CYP-GUIDES Trial: Length of Stay Stratified by Ethnicity. Virtual Poster Session at Harvard University. Boston, MA, November 2021.
9. **Rustin D Crutchley**, Jonathan Chen, Cheyenne Newsome, Debbie Li, and Preeyaporn Sarangarm. Advanced HIV elective improves students' perceptions of abilities, confidence, and attitudes toward caring for people living with HIV (PLWH). ACCP Annual Meeting. New York, NY, October 2019
10. Diane Nguyen, Alexa Vyain, **Rustin Crutchley**, Amy Min, and Michael Mizwa. Learning across borders: developing a pharmacist-driven continuing professional development program through the Baylor College of Medicine International Pediatric AIDS Initiative Pharmacy Network (BIPAI-PN). ACCP Global Conference on Clinical Pharmacy. Seattle, WA, October 2018
11. **Rustin D Crutchley**. Precision Medicine in the HIV Aging Population. World Conference on STDs, STIs & HIV/AIDS. Vancouver, Canada, July 2017
12. Alexa Vyain, **Rustin Crutchley**, Anne Le, Joseph Gathe Jr., Carl Mayberry. Assessing treatment outcomes when switching HIV-1 infected patients from various antiretroviral therapy (ART) regimens to darunavir/cobicistat monotherapy. 31st ALCALDE/TSHP. Galveston, TX, April 2017
13. Diane Nguyen, Alexa Vyain, **Russ Crutchley**, Amy Cheng, Michael Mizwa. Learning across borders: Developing a pharmacist-driven continuing professional development program through the BIPAI-PN. 8th Annual Consortium of Universities for Global Health (CUGH). Washington DC, April 2017
14. Christina Nance, Rosa Yeh, Roberto Arduino, Thomas Giordano, Mary Paul, Filiz O. Seeborg, **Rustin Crutchley**, Melinda Mata, Evelyn Leechawengwongs, and William T. Shearer. Translational Medicine in HIV-1 Infection: Preclinical and Clinical Development of the Green Tea Catechin, Epigallocatechin Gallate, as Therapy and Immunological Signatures. 20th Academy of Allergy, Asthma and Immunology (AAAAI). Atlanta, GA, March 2017

15. Alexa Vyain, **Rustin Crutchley**, Anne Le, Joseph Gathe, Jr., and Carl Mayberry. Assessing treatment outcomes when switching HIV-1 infected patients from different antiretroviral therapy (ART) regimens to darunavir/cobicistat monotherapy. 51st ASHP. Las Vegas, NV, 2016
16. Austin Hinkel, Shutian Kathy Ju, **Rustin D Crutchley**, Alexa Vyain, and Joseph Gathe, Jr. Evaluating prevalence and types of clinical pharmacy interventions in an HIV ambulatory care setting. 51st ASHP. Las Vegas, NV, 2016
17. Christina Nance, Rosa Yeh, Roberto Arduino, Thomas Giordano, Mary Paul, Filiz Seeborg, Tao Niu, Ming Hu, **Rustin Crutchley**, and William T. Shearer. Phase I Clinical Trial Results of Epigallocatechin Gallate in HIV-1-Infected Subjects. 16th Federation of Clinical Immunology Societies (FOCIS). Boston, MA, 2016
18. Amy M Cheng, **Rustin D Crutchley**, Joseph C. Gathe Jr, and Carl Mayberry. Identifying patient and antiretroviral specific factors for switching to simplified HIV treatment regimens. 30th ALCALDE/TSHP. Frisco, TX, 2016
19. Emily Rapesak, **Rustin Crutchley**, Amy Cheng, Joseph Gathe, Jr., and Carl Mayberry. Evaluating various types of clinical pharmacy interventions and their impact on treatment outcomes in a HIV ambulatory care setting. 50th ASHP. New Orleans, LA, 2015
20. Rakesh Guduru and **Rustin Crutchley**. Assessing risk factors for treatment failure with diphenoxylate/atropine in HIV-infected patients on highly active antiretroviral therapy (HAART). 29th ALCALDE/TSHP. San Antonio, TX, 2015
21. Amanda Martin and **Rustin Crutchley**. Effect of crofelemer on antiretroviral therapy adherence and surrogate markers when used for the treatment of HIV-associated diarrhea. 49th ASHP. Anaheim, CA, 2014
22. Alexandra Whiddon and **Rustin Crutchley**. Assessing the effects of crofelemer on adherence and HIV clinical parameters in HIV-infected patients on antiretroviral therapy. 48th ASHP. Orlando, FL, 2013
23. Lynsey Smith, **Rustin Crutchley**, and Susan Gillespie. Importance of medication compliance in human immunodeficiency virus (HIV) infection to control the virus, prevent resistance and preserve treatment options. 48th ASHP. Orlando, FL, 2013
24. Amy Moss, Teddy Zerai, **Rustin Crutchley**, Kevin Garey. Effect of Different Protease Inhibitors, with or without Tenofovir, on Nephrotoxicity. 64th TSHP. Dallas, TX, 2012
25. Amy Moss, Teddy Zerai, **Rustin Crutchley**, Kevin Garey. Effect of Different Protease Inhibitors, with or without Tenofovir, on Nephrotoxicity. 46th ASHP. New Orleans, LA, 2011
26. **Rustin D. Crutchley**, Joseph Gathe, Jr, and Angel Trieu. Risk factors for vitamin D deficiency in HIV-1 infected adults in the South-Central United States. 18th International AIDS Conference. Vienna, Austria, 2010
27. **Rustin Crutchley**, Joseph Gathe, Jr, Anuja Ghorpade, and Kevin Garey. Assessing the effects of antiretrovirals on changes in vitamin D levels in treatment-naïve HIV-infected individuals. 5TH Annual Texas Conference on Health Disparities: Focus on Women's Health. Fort Worth, TX, 2010
28. Badal Patel, **Rustin Crutchley**. Retrospective evaluation of the effect of protease inhibitors on dyslipidemia in HIV infected adults. 44TH ASHP. Las Vegas, NV, 2009

29. **Rustin D. Crutchley**, Gene Morse, Wing Ma, Adel Sulaiman, Chiu Hsiao, Sanjivini Wadhwa. Intra-patient Variability of Atazanavir Plasma Trough Concentrations in HIV-1 Infected Patients. 27TH Eastern States Conference. Hershey, PA, 2008
30. **Rustin D. Crutchley**, Gene Morse, Wing Ma, Adel Sulaiman, Chiu Hsiao, Sanjivini Wadhwa. Intra-patient Variability of Atazanavir Plasma Trough Concentrations in HIV-1 Infected Patients. 42th ASHP. Las Vegas, NV, 2007
31. **Rustin D. Crutchley** and Michael J. Borucki. Achieving Optimal Therapeutic Outcomes in HIV-experienced Patients by Assessing Barriers to Antiretroviral Adherence. 21st ALCALDE/TSHP. San Antonio, TX, 2007
32. **Rustin D. Crutchley** and Michael J. Borucki. Achieving Optimal Therapeutic Outcomes in HIV-experienced Patients by Assessing Barriers to Antiretroviral Adherence. 41th ASHP. Anaheim, CA, 2006
33. **Rustin D. Crutchley**, Howard J. Peckman, Toyin Tofade. Assessment of Creatinine Clearance in Patients with Low Serum Creatinine and Hypoalbuminemia. NCAP. Greensboro, NC, April, 2006
34. **Rustin D. Crutchley**, Howard J. Peckman, Toyin Tofade. Assessment of Creatinine Clearance in Patients with Low Serum Creatinine and Hypoalbuminemia. 40th ASHP. Las Vegas, NV, December, 2005

HONORS/AWARDS

MAMS Thank You Award for Outstanding Teaching/Advising/Mentoring	2020
PY2 Yakima Faculty/Teacher of the Year Award	2019-2020
Secured funding from CompanionDX for new University of Houston College of Pharmacy PGY2 HIV Ambulatory Care/Clinical Pharmacogenetics Residency Program	2014-2016
Faculty Preceptor of the Year Award	2014
Accepted to attend the Genetics of Complex Human Diseases course at Cold Springs Harbor Laboratory (CSHL)	2012
Accepted to attend rigorous one-week F.I.T. (Focused Investigator Training) program sponsored by ACCP designed to help attendees establish better grantmanship and to have greater exposure to peer-reviewed mentoring of their current grant proposals	2011
Received 1 st place among STAR fellows during STAR Health Disparities Fellowship for R21 grant proposal "Assessing the effects of antiretrovirals on changes in vitamin D levels in treatment-naïve HIV-infected patients"	2010
Invitation to the Dietary Supplement Research Practicum at the National Institutes of Health (NIH) in Bethesda, Maryland	2009
Best overall presentation at the UB School of Pharmacy and Pharmaceutical Sciences Resident Research Presentation Day	2008

Clinical Scholars Program 2005-2006

University of North Carolina at Chapel Hill
Recipient of Fred Eshelman for Professional Student Scholarship 2005-2006

INVITED PRESENTATIONS (listed in reverse chronological order)

2025

- Initial Assessment, Monitoring, and Treatment Goals (1.5 HR ACPE)
HIV Pharmacotherapy Continuing Education and Certificate Program
University at Buffalo
December, 2025
- Initiating Antiretroviral Therapy in Treatment-Naïve Patients (1.5 HR ACPE)
HIV Pharmacotherapy Continuing Education and Certificate Program
University at Buffalo
December, 2025
- Managing Treatment-Experienced Patients (1.5 HR ACPE)
HIV Pharmacotherapy Continuing Education and Certificate Program
University at Buffalo
December, 2025
- Drug-Drug Interactions with Antiretroviral Therapy (1.5 HR ACPE)
HIV Pharmacotherapy Continuing Education and Certificate Program
University at Buffalo
December, 2025
- Warfarin and Antibiotics: Does the interaction matter?
CHRISTUS St Michael Hospital
Texarkana, TX
April, 2025

2023

- Pharmacogenomics of Depression (1 HR ACPE)
Manchester University College of Health Sciences and Pharmacy Preceptor Showcase
Fort Wayne, Indiana
September, 2023
- Pharmacogenomics: Applications in the HIV Population (1 HR Continuing Professional Development)
Pharmaceutical Society of South Africa
Cape Town, South Africa
June, 2023
- Fundamentals of Pharmacogenomics (PGx), Genetic Variation in Drug Metabolism, and Interpretation of PGx Testing Results (1 HR ACPE and AMA PRA Category 1 Credits; live online (zoom))
Interprofessional Clinical Pharmacogenomics Certificate Program
WSU College of Pharmacy and Pharmaceutical Sciences

Yakima, WA
March 7, 2023

- Enhancing Global Educational Efforts of Pharmacogenomics Using a Case Repository (moderator for speakers Drs. Aniwaa Owusu Obeng and Eric Matey)
American Association of Colleges of Pharmacy (AACP) Webinar
February, 2023

2022

- HIV/Precision Medicine in South Africa
Research seminar for pharmacy students and faculty
Manchester University, Indiana
November, 2022
- Initial Assessment, Monitoring, and Treatment Goals (2 HR ACPE)
HIV Pharmacotherapy Continuing Education and Certificate Program
University at Buffalo
August, 2022
- Initiating Antiretroviral Therapy in Treatment-Naïve Patients (3 HR ACPE)
HIV Pharmacotherapy Continuing Education and Certificate Program
University at Buffalo
August, 2022
- Managing Treatment-Experienced Patients (2 HR ACPE)
HIV Pharmacotherapy Continuing Education and Certificate Program
University at Buffalo
August, 2022
- Drug-Drug Interactions with Antiretroviral Therapy (2 HR ACPE)
HIV Pharmacotherapy Continuing Education and Certificate Program
University at Buffalo
August, 2022
- Pharmacogenomics Case-based Education: One Size Does Not Fit All. Incorporating Diversity-and-Inclusion Principles in Case Development (1 HR ACPE)
American Association of Colleges of Pharmacy (AACP) Annual Meeting
Grapevine, TX
July, 2022
- Applying knowledge of pharmacogenomics to patient care
24th Academic Meeting (interdisciplinary group of healthcare providers at Helderberg)
Cape Town, South Africa
June, 2022
- Applying knowledge of pharmacogenomics to patient care (1 HR ACPE)
Northwest Pharmacy Convention Annual Meeting
Coeur d'Alene, ID
June, 2022

- Clinical Implementation of Pharmacogenomics (2 HR ACPE; self-study)
Interprofessional Clinical Pharmacogenomics Certificate Program
WSU College of Pharmacy and Pharmaceutical Sciences
Yakima, WA
April 27, 2022
- Pharmacogenomics of Drug-Induced Hypersensitivity Reactions (2 HR ACPE; self-study)
Interprofessional Clinical Pharmacogenomics Certificate Program
WSU College of Pharmacy and Pharmaceutical Sciences
Yakima, WA
April 13, 2022
- Pharmacogenomics of Depression (2 HR ACPE; self-study)
Interprofessional Clinical Pharmacogenomics Certificate Program
WSU College of Pharmacy and Pharmaceutical Sciences
Yakima, WA
March 30, 2022
- Fundamentals of Pharmacogenomics (PGx), Genetic Variation in Drug Metabolism, and Interpretation of PGx Testing Results (1 HR ACPE; live online (zoom))
Interprofessional Clinical Pharmacogenomics Certificate Program
WSU College of Pharmacy and Pharmaceutical Sciences
Yakima, WA
March 15, 2022
- Fundamentals of Pharmacogenomics (PGx), Genetic Variation in Drug Metabolism, and Interpretation of PGx Testing Results (1 HR ACPE; self-study)
Interprofessional Clinical Pharmacogenomics Certificate Program
WSU College of Pharmacy and Pharmaceutical Sciences
Yakima, WA
March 8, 2022

2021

- Key Considerations for Implementation of Smoking Cessation Protocol at Comprehensive Healthcare
Educational training discussion at Comprehensive Healthcare
Yakima, WA
December, 2021

2020

- Vitamin D in the HIV Population
Research Seminar
Central Washington University
Ellensburg, WA
March, 2020
- Teach the Teacher: A Conversation with FDA About Pharmacogenomics Information in Drug Labeling
Invited as an Expert Panelist

American Association of Colleges of Pharmacy (AACP) Annual Meeting
Long Beach, CA (virtual pharmacy meeting due to COVID-19)
July, 2020

2019

- Pharmacogenomic Applications in the HIV Population
Pharmacogenomics Symposium
University of Cape Town (UCT)
Cape Town, South Africa
May, 2019
- Pharmacogenomic Applications in the HIV Population
University of Western Cape (UWC) School of Pharmacy
Cape Town, South Africa
June, 2019
- Pharmacogenomic Applications in the HIV Population
Grand Rounds Infectious Diseases Unit
Tygerberg Hospital (Stellenbosch University)
Cape Town, South Africa
June, 2019
- Pharmacogenetic Applications in Mental Health at Yakima Valley Farm Worker's Clinic (YVFWC)
YVFWC Medication Management Committee Meeting
Toppenish, WA
August, 2019

2018

- Avoiding and Managing Drug Interactions (1 HR ACPE)
Webinar for *HIV Pharmacotherapy Community Pharmacy Educational Certificate Program* (University at Buffalo SUNY School of Pharmacy and Pharmaceutical Sciences)
September, 2018

2017

- Precision Medicine in the HIV Aging Population
World Conference on STDs, STIs & HIV/AIDS
Vancouver, Canada
July, 2017
- Antiretroviral Toxicity
1st Baylor International Pediatric AIDS Initiative (BIPAI) Global Pharmacy Network Conference
Johannesburg, South Africa
November, 2017
- Overview on Relevant Antiretroviral Drug-Drug Interactions (1 HR ACPE)
Webinar elective lecture for BIPAI Pharmacy Network Continuing Professional Development Certificate Program (Texas Children's Hospital)

Yakima, WA
November, 2017

2016

- Highlighting Pharmacogenetic Approaches for Optimizing Treatment of HIV
4th Houston Global Health Collaborative's Empower 2016 Conference, Rice University, Houston, TX
February, 2016
- Coordinated Management and Care Retention Strategies to Transform Patient Outcomes in HIV (1.5 HR ACPE)
HIV AMCP/CMSA Chapter Meeting in Houston, TX
August, 2016
- Polypharmacy in an Era of Antiretroviral Therapy Simplification (1 HR ACPE)
1st Aging with HIV Symposium in Houston, TX
September, 2016
- Coordinated Management and Care Retention Strategies to Transform Patient Outcomes in HIV (1.5 HR ACPE)
HIV AMCP/CMSA Chapter Meeting in San Antonio, TX
October, 2016
- Avoiding and Managing Drug Interactions (1 HR ACPE)
Webinar for *HIV Pharmacotherapy Community Pharmacy Educational Certificate Program* (University at Buffalo SUNY School of Pharmacy and Pharmaceutical Sciences)
November, 2016

2015

- Update on the Role of New Therapies for the Treatment of HIV and Hepatitis C (1 HR ACPE)
67th Annual Meeting of Texas Society of Health System Pharmacists (TSHP), San Antonio, TX
April, 2015
- Optimizing Treatment Outcomes through HIV Clinical Pharmacogenetic Translational Research
Pharmacy Practice and Translational Research (PPTR) Seminar Series, University of Houston, College of Pharmacy, Houston, TX
October, 2015

2014

- Fulyzaq (crofelemer) for Noninfectious Diarrhea in Adult Patients with HIV/AIDS on Antiretroviral Therapy
Salix Pharmaceuticals, Inc., Therapeutic Concepts, Houston, TX
September, 2014
- Fulyzaq (crofelemer) for Noninfectious Diarrhea in Adult Patients with HIV/AIDS on Antiretroviral Therapy

Salix Pharmaceuticals, Healing Wings HIV/AIDS Center, JPS Health Network, Fort Worth, TX
September, 2014

2013

- Avoiding and Managing Drug Interactions (1 HR ACPE)
HIV Pharmacotherapy Update Symposium 2013, University at Buffalo SUNY School of Pharmacy and Pharmaceutical Sciences, Buffalo, NY
July, 2013
- Fulyzaq (crofelemer) for Noninfectious Diarrhea in Adult Patients with HIV/AIDS on Antiretroviral Therapy
Salix Pharmaceuticals, Inc., Sorrento Ristorante, Houston, TX
October, 2013

2012

- Role of new therapies for the treatment of HIV and hepatitis C (1 HR ACPE)
64th Annual Meeting of the Texas Society of Health System Pharmacists (TSHP), Dallas, TX
April, 2012

2011

- Role of vitamin D in HIV-infected patients
Infectious Diseases Academic Conference, V.A. Medical Center, Houston, TX
April, 2011

2010

- Vitamin D deficiency in HIV-infected patients
Baylor CFAR meeting, Houston, TX
March, 2010
- Update on HIV/AIDS: Treatment and Vaccine Development (1 HR ACPE)
62nd Annual Meeting of the Texas Society of Health System Pharmacists (TSHP), Galveston, TX
April, 2010
- Update on HIV/AIDS: Treatment and Vaccine Development (1 HR ACPE)
Grand Rounds, University of Texas Health Center at Tyler, TX
July, 2010
- Risk factors for vitamin D deficiency in HIV-1 infected adults in the South-Central United States (Oral Poster Presentation)
18th International AIDS Society (IAS) Conference, Vienna, Austria
July, 2010
- Treatment of HIV-infected Adults/Adolescents
Allergy and Immunology Academic Conference, Texas Children's Hospital, Houston, TX
August, 2010

2008

- Intra-patient variability of atazanavir plasma trough concentrations in HIV-1 infected patients (platform presentation)
Eastern States Conference, Hershey, PA
May, 2008
- Review of Recently Approved HIV Medications (1 HR ACPE)
SUNY at Buffalo School of Pharmacy and Pharmaceutical Sciences, Buffalo, NY
June, 2008

2007

- Overview of HIV Pharmacotherapy (2 HR ACPE)
University of Texas Health Center at Tyler, TX
January, 2007
- Achieving optimal therapeutic outcomes in HIV-experienced patients by assessing barriers to antiretroviral adherence (platform presentation)
ALCALDE, San Antonio, TX
April, 2007
- Overview of HIV Drugs and Opportunistic Infections
D'Youville College, Buffalo, NY
October, 2007
- Assessing collaboration opportunities with South Africa
SUNY at Buffalo School of Pharmacy and Pharmaceutical Sciences
December, 2007

UNIVERSITY AND INSTITUTIONAL COMMITTEES*Manchester University College of Health Sciences and Pharmacy*

Chair	Pharmacogenomics Advisory Council	2023
Member	Curriculum Committee	2023

Washington State University College of Pharmacy and Pharmaceutical Sciences Committees

Member	Student Progress Committee	2023
Member	Scholarship and Awards Committee	2021-23
Member	Industry Advisory Board	2020-23
Member	Clinical Pharmacogenomics Certificate Planning Group	2020-23
Member	Accreditation Compliance Committee	2018-23
Member	Department Strategic Plan Update	2021
Member	Student Professional Development and Co-curricular Committee	2019-2021
Member	Transformation & Innovation in Pharmacy Education (TIPed) Steering Committee	2019
Member	Strategic Plan Committee	2018-2019
Member	Curriculum Change Process Committee	2017-2018
Member	Search Committee for Office Assistant III candidate	2018

<i>Pacific Northwest University (PNWU)/Master of Arts and Medical Sciences (MAMS) Committees</i>		
Member (Ex-Officio)	MAMS Admissions Committee	2021-23
Member (Ex-Officio)	MAMS Curriculum Committee	2021-23

University of Houston Committees

Member	Graduate Student Dissertation Committee (Marika Faytell, PhD Candidate in Department of Clinical Psychology/Chair Dr. Steven Woods)	2015-17
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University of Houston College of Pharmacy Committees

Chair	Residency Advisory Committee (RAC) for UH PGY-2 HIV Ambulatory Care/Clinical Pharmacogenetics Residency Program	2014-17
Member	Residency Advisory Committee (RAC) for UH PGY-1 Community Pharmacy Practice Residency Program	2014-17
Co-chair	Pharmacy Practice and Translational Research (PPTR) Seminar Series	2012-17
Member	Mentoring Program Committee	2009-17
Member	Admissions and Progressions Committee	2016-17
Member	Search Committee for PPTR faculty candidate (non-tenure, research-emphasis)	2016-17
Member	Accreditation/Standards 20 (Preceptors) and 22 (Practice Facilities)	2015-17
Member	Experimental Therapeutics Division Committee	2012-17
Member	Student Affairs Committee	2009-17
Chair	Search Committee for PPTR Mental Health faculty candidate (non-tenure)	2016
Member	Curriculum Committee	2016
Chair	Search Committee for PPTR Infectious Diseases faculty candidate (non-tenure)	2013-14
Member	Search Committee for CSA ID candidate (tenure-track)	2013-14
Member	Experiential Student Advisory Committee	2010-12
Member	International Pharmacy Education Committee	2009-11
Member	Accreditation/Organization and Administration	2009-11

Texas Children's Hospital/Baylor

Member	EGCG Clinical Trial Committee	2009-17
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CompanionDX

Member	PharmD Meetings	2013-15
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CONSULTING

Theratechnologies	2020
Clinical Care Options	2016-2017
Napo Pharmaceuticals	2016
Guidepoint	2016
Hillgenberg Consulting	2016
PRIME Education, Inc.	2016
Bristol-Myers Squibb Collaborative Institute of Virology (CIV) Regional Panel	2015
Salix Pharmaceuticals	2012-2015

PROFESSIONAL SOCIETIES MEMBERSHIP

Personalized Medicine Coalition	2023
Pharmacogenomics Extension for Community Healthcare Outcomes (PGx ECHO)	2022-
Standardizing Laboratory Practices in Pharmacogenomics (STRIPE) -Study Design Task Force	2022-
Washington State Pharmacy Association (WSPA)	2022-23
American Society of Health System Pharmacy (ASHP)	2022-23 2013-16, 2009-13
Pharmacogenetics Global Research Network (PGRN) -Founding Member -Psychiatry Pharmacogenetics Interest Group	2020-
American Association of Colleges of Pharmacy (AACP) -Pharmacogenomics SIG -Global Education SIG -Experiential Education Section -Pharmacy Practice Section	2020-24
Get the medications right (GTMRx) -Precision Medicine Working Group	2019-23
International Antiviral Society (IAS)-USA	2018-
Clinical Pharmacogenetics Implementation Consortium (CPIC)	2017-
American College of Clinical Pharmacy (ACCP) Pharmacokinetics/Pharmacodynamics/Pharmacogenomics Practice Research Network (PRN) Adult Medicine PRN	2018-21, 26-
The Society of Infectious Diseases Pharmacists (SIDP)	2007-10, 2014-17
Texas Society of Health-System Pharmacists (TSHP)	2010-17
Houston Infectious Diseases Network (HIDN)	2008-17
Baylor Center For AIDS Research (CFAR)	2009-16
International AIDS Society (IAS)	2009-13

PROFESSIONAL SOCIETIES COMMITTEE SERVICE/LEADERSHIP

<i>Personalized Medicine Coalition</i>		2023
-responsible for providing quarterly updates on drug-gene associations, clinical recommendations, evidence levels, and differences in dosing or use recommendations for drugs listed in both FDA Table of Pharmacogenetic Associations and CPIC Guidelines		
<i>PGx ECHO</i>		2023
Member	Monthly Committee Planning Group	
<i>American Academy of HIV Medicine (AAHIVM)</i>		2020-
-Item Writer and Reviewer for American Academy of HIV Medicine Pharmacist (AAHIVP) credentialing exam		
<i>American Association of Colleges of Pharmacy (AACP)</i>		
Chair	Pharmacogenomics SIG	2023
Chair-Elect	Pharmacogenomics SIG	2022-23
Member	Public Health SIG Tobacco Control Committee	2021-23
Member	Global Education SIG Outreach Education Committee	2020-23
Chair	Pharmacogenomics SIG Awards Committee	2020-2022
Member	New Investigator Award (NIA) Grant Reviewer (Pharmacy Practice Section)	2020
ACCP-AACP Annual ACCP meeting (Pharmacogenomics Case Workshop)		2019
-Developed and advised flow of patient case development regarding teaching of clinically relevant therapeutic areas of pharmacogenomics in depression, cardiovascular disease and pain		

INTERNATIONAL DIDACTIC GRADUATE TEACHING EXPERIENCE

Instructor of Record for HIV Elective PHC 821 Masters in Clinical Pharmacy University of Western Cape School of Pharmacy Cape Town, South Africa (2 Credits; 30 lecture hours per year)	2019, 2021-24
Instructor of Record for Advances in Clinical Pharmacogenomics Elective PHARMACY 598 Masters in Clinical Pharmacy University of Western Cape School of Pharmacy Cape Town, South Africa (8 lecture hours per year)	2021-23

External Examiner/reviewer for the PHAR 4010 Pharmacotherapy III University of The West Indies College of Pharmacy Mona Campus, Kingston, Jamaica	2018-20
External Examiner/reviewer for the PHAR 4000 Pharmacotherapy II University of The West Indies College of Pharmacy	2017-20
Learning across borders: Developing a pharmacist-driven continuing professional development (CPD) program Baylor College of Medicine International Pediatric AIDS Initiative Pharmacy Network (BIPAI-PN)	2016-18
<u>PhD Thesis Co-supervisor</u> Nicole Keuler University of Western Cape, School of Pharmacy, Cape Town, South Africa <i>"Pharmacogenomics: A Curriculum Framework for Pharmacy Education in South Africa"</i>	2023-
<u>PhD Thesis Reviewer (PhD awarded in July 2023)</u> Arinao Trymore Ndadza (primary supervisor Professor Collet Dandara) University of Cape Town, South Africa <i>"Pharmacogenomics of warfarin: a comprehensive evaluation of important warfarin genomic response factors"</i>	2023

INTERPROFESSIONAL TEACHING EXPERIENCE

Didactic (Heritage University/Pacific Northwest University of Health Sciences (PNWU))
Graduate

Instructor of Record (IOR) for Pharmacogenomics Module BIOL 512 (Basic and Clinical Pharmacogenomics) Master of Arts in Medical Sciences (MAMS) (2 Credits; 30 lecture hours per year)	2018-23
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TEACHING EXPERIENCE

Didactic (Manchester University College of Health Sciences and Pharmacy)
Graduate Programs (Masters of Science in Pharmacogenomics)

Instructor of Record for Pharmacogenomics in Practice 2 PGx 528 (2 lecture hours per year; 30 lecture hours per year)	2023
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Didactic (Washington State University College of Pharmacy and Pharmaceutical Sciences)
Graduate

Participating Instructor/Lecturer for APC IV Advanced Medication Management (EHR GO/HIV case) PHARMACY 551	2022-23
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(2 lecture hours per year)	
Participating Instructor/Lecturer for Student Success and Professional Development (SSPDIII) PHARMACY 556 (1 lecture hour per year)	2021-23
Participating Instructor/Lecturer for Student Success and Professional Development (SSPDI) PHARMACY 506 (2 lecture hours per year)	2021-23
Instructor of Record for Advances in Clinical Pharmacogenomics Elective PHARMACY 598 (2 Credits; 30 lecture hours per year)	2021-23
Participating Instructor/Lecturer for Pharmacotherapy IV PHARMACY 554 (4 HIV lecture hours per year)	2019-23
Instructor of Record for Therapeutics-Advanced HIV Elective PHARMACY 595 (2 Credits; 30 lecture hours per year)	2018-23
Instructor of Record for Integrated Pharmacology III PHARDSCI 532 (4 Credits; 60 lecture hours per year)	2018-23
Instructor of Record (IOR) for Integrated Pharmacology IV PHARDSCI 542 (4 Credits; 60 lecture hours per year)	2018-23
Instructor of Record (IOR) for Basic and Clinical Pharmacogenomics PHARDSCI 510 (2 Credits; 30 lecture hours per year)	2018-23
Instructor of Record (IOR) for Therapeutics of Special Populations PHARMACY 566 (3 Credits; 45 lecture hours per year)	2017-23
Instructor of Record (IOR) for Residency Preparation Elective PHARMACY 593 (2 Credits; 30 lecture hours per year)	2018-21
Participating Instructor/Lecturer for Pharmacotherapy IV PHARMACY 554 (2 HCV lecture hours per year)	2018
Participating Instructor/Lecturer for Pharmacotherapy IV PHARMACY 554 (6 HIV lecture hours per year)	2017-19

Participating Instructor/Lecturer for Integrated Pharmacology III PHARDSCI 532 (4 Credits; 60 lecture hours per year)	2017
Participating Instructor/Lecturer for HIV Elective PHARMACY 499-04 (1 HIV lecture hour per year)	2017
<u>Didactic/Independent Study (Washington State University College of Pharmacy and Pharmaceutical Sciences)</u>	
Graduate	
Instructor of Record for Independent Study Elective on Pharmacogenomics PHARMACY 499-27522 (2 Credits; 90 hours per year)	2022
Instructor of Record for Independent Study Elective on Pharmacogenomics PHARMACY 499-27522 (1 Credits; 45 hours per year)	2022
Instructor of Record for Independent Study Elective on Advanced HIV PHARMACY 499-12778 (4 Credits; 180 hours per year)	2020
Instructor of Record for Independent Study Elective on Pharmacogenomics PHARMACY 499-9467 (1 Credit; 45 hours per year)	2019
Instructor of Record for Independent Study Elective on Advanced HIV PHARMACY 499-9467 (1 Credit; 45 hours per year)	2019
Instructor of Record for Independent Study Elective on Pharmacogenomics PHARMACY 499-6937 (1 Credit; 45 hours per year)	2018
<u>Clinical/Teaching Instructor</u>	
HIV/Precision Medicine Global APPE Elective rotation in Cape Town, South Africa -Washington State University College of Pharmacy and Pharmaceutical Sciences Pharmacy student preceptor (1-2 months/year)	2019-23
Pharmacogenomics Teaching APPE Elective rotation -Washington State University College of Pharmacy and Pharmaceutical Sciences Pharmacy student preceptor (3 months/year)	2019-23
HIV Teaching APPE Elective rotation -Washington State University College of Pharmacy and Pharmaceutical Sciences Pharmacy student preceptor (3 months/year)	2018-23

Undergraduate Honors Thesis Advisor

Samantha Marie Moya 2020-2022
Washington State University (Pullman campus)
"Role of Pharmacogenomics Testing in the Treatment of Depression in the Hispanic Community"

Didactic (University of Houston College of Pharmacy) Graduate

Lecturer for Advanced Infectious Diseases I PHAR 5208 (2 lecture hours per year)	2009-17
Lecturer for Cellular Life Sciences II PHAR 4301 (1 lecture hour per year)	2009-17
Co-coordinator/lecturer for Pharmacogenomics and Personalized Medicine PHAR 5297 (7 lecture hours per year)	2013, 2015-16
Lecturer for Advanced Therapeutics I PHAR 5581 (7 lecture hours per year)	2016
Facilitator for Advanced Therapeutics I/II Skills Lab PHAR 5581/5582 (40-45 lecture hours per year)	2016
Lecturer for Advanced Therapeutics I PHAR 5581 (9 lecture hours per year)	2008-2015
Facilitator for Advanced Therapeutics I/II Skills Lab PHAR 5581/5582 (20-25 lecture hours per year)	2014-2015
Facilitator for Advanced Therapeutics I/II Skills Lab PHAR 5581/5582 (10-15 lecture hours per year)	2008-2013
Coordinator/lecturer for Advanced Infectious Diseases II PHAR 5209 (6 lecture hours per year)	2011-2013
Co-coordinator/lecturer for Advanced Infectious Diseases II PHAR 5209 (3 lecture hours per year)	2010
Lecturer for Pharmacy Management I PHAR 4260 (2 lecture hours per year)	2009

Clinical Instructor

PGY-2 HIV Ambulatory Care/Clinical Pharmacogenetics Residency Program Director 2014-17
-Therapeutic Concepts (Adult) and Retrovirology Clinic (Texas Children's Hospital)
Pharmacy resident preceptor (12 months/year)

Ambulatory Care-Disease State Management (HIV)	2010-17
-Therapeutic Concepts (Adult) and Retrovirology Clinic (Texas Children's Hospital)	
Pharmacy resident preceptor (6 months/year)	

Ambulatory Care-Disease State Management (HIV)	2009-17
-Therapeutic Concepts (Adult) and Retrovirology Clinic (Texas Children's Hospital)	
Pharmacy student preceptor (6-8 months/year)	

Postdoctoral fellows

Kierra Dotson	Postdoctoral fellowship	2017
Nancy Vuong	Postdoctoral fellowship	2014
Samuel Aitken	Postdoctoral fellowship	2013
Wichai Santimaleeworagun	Postdoctoral fellowship	2011
Dhara Shah, PharmD	Postdoctoral fellowship	2009-2011
Tran Tran, PharmD	Postdoctoral fellowship	2009-2011
Nicholas Beyda, PharmD	Postdoctoral fellowship	2010
Elizabeth Hirsch, PharmD	Postdoctoral fellowship	2009

FUNDED GRANTS

Title: University of Houston College of Pharmacy PGY2 HIV Ambulatory Care/Clinical Pharmacogenetics Residency

PI: Rustin Crutchley

Funding agency: Society of Infectious Diseases Pharmacist (SIDP)

Grant amount (total costs): \$60,000

Time period: Funded (7/1/2016-6/30/2017)

Title: University of Houston College of Pharmacy PGY2 HIV Ambulatory Care/Clinical Pharmacogenetics Residency

PI: Rustin Crutchley

Funding agency: CompanionDX

Grant amount (total costs): \$20,000

Time period: Funded (7/20/2015-7/19/2016)

Title: Research Activities (Polyphenon E/Crofelemer/vitamin D)

PI: Rustin David Crutchley

Funding agency: NIH/National Center for Complementary and Integrative Health (NCCIH)

Grant amount (total costs): \$35,584 (**NIH Loan Repayment Clinical Research – Extramural**)

Time period: Funded (7/1/2015-6/30/2017)

Title: Real-world use of crofelemer in HIV patients on HAART with treatment failure to other anti-diarrheals

PI: Russ Crutchley

Co-investigators: Nicholas Beyda, M Jahangir Alam, and Kevin W. Garey

Funding agency: Salix Pharmaceuticals, Inc. (now Napo Pharmaceuticals)

Grant amount (total costs): \$85,934

Time period: Funded (4/2015-12/31/2016)

Title: University of Houston College of Pharmacy PGY2 HIV/ID/Clinical Pharmacogenetics Residency

PI: Rustin Crutchley

Funding agency: CompanionDX

Grant amount (total costs): \$15,000

Time period: Funded (8/1/2014-7/31/2015)

Title: Assessing the effects of antiretrovirals on changes in vitamin D levels in treatment-naïve HIV-1 infected individuals

PI: Rustin David Crutchley

Co-I: Joseph Gathe, Jr, Kevin Garey

Consultant: Anuja Ghorpade

Funding agency: University of North Texas Health Science Center at Fort Worth

Grant amount (total costs): \$25,000

Time period: Awarded at the completion of STAR Health Disparities Fellowship, but unfortunately the pilot community based health disparities research project grant of \$25,000 was not available for funding at the time.

JOURNAL REVIEWER

European Journal of Drug Metabolism and Pharmacokinetics

BMC Pharmacology and Toxicology

Reviews on Recent Clinical Trials

Pharmacotherapy

European Journal of Hospital Pharmacy

Clinical Pharmacokinetics

Lancet

The American Journal of Managed Care (AJMC)

AIDS Research and Human Retroviruses

Journal of Pharmacy Practice

Journal of Health, Population and Nutrition

EDITORIAL BOARD EXPERIENCE

Invited by the journal *Frontiers in Pharmacology* to serve as Editor for the following developed and published research topic proposal:

Precision HIV Patient Care from a Pharmacogenomics Perspective.

<https://www.frontiersin.org/research-topics/49911/precision-hiv-patient-care-from-a-pharmacogenomics-perspective> 2022-23

Member of the international editorial board for the AIDS Clinical Trials Group (ACTG) Precautionary and Prohibited Medications Database. 2014-2017

INVITED REVIEW (NIH APPLICATIONS)

Served on ZAI1-UKS-A-S1 Special Emphasis Panel for review of NIH applications in response to RFA-AI-12-018: "Clinical Trials Units for NIAID Networks. June 5, 2013.