October 08, 2026

CURRICULUM VITAE

Charles Darkoh, Ph.D.
Professor (Tenured)
R. Palmer Beasley, M.D., and Lu-Yu Hwang, M.D. Endowed Chair in Infectious Diseases and Global Health,
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A. EDUCATION

Graduate Education

Ph.D. (Molecular Pathology, Microbiology, and Molecular Genetics, The University of Texas Health Science Center, University of Texas MD Anderson Cancer Center UTHealth Graduate School of Biomedical Sciences, Houston, Texas, 2012, Primary advisor/mentor - Herbert L. DuPont, M.D.; Co-advisor – Heidi B. Kaplan, Ph.D.

Master of Science, Biotechnology, Stephen F. Austin State University, Nacogdoches, Texas, 2008.

Master of Science, Biology, University of Bremen, Bremen, Germany, 2001.

Undergraduate Education

Bachelor of Science, Zoology/Biological Sciences (Honors), University of Ghana, Legon, Ghana, 1999.

Other Career Development Training

I. Mentoring Works, The University of Texas Health Science Center, University of Texas MD Anderson Cancer Center UTHealth Graduate School of Biomedical Sciences - A workshop designed by the Wisconsin Center for Education Research at The University of Wisconsin to enhance mentoring skills, 2016.

II. How to Communicate with Tact and Professionalism - A Fred Pryor Career Track Seminar designed to improve communication and listening skills, September 15-16, 2015.

B. ACADEMIC APPOINTMENTS

Professor (Tenured), The University of Texas Health Science Center, School of Public Health, Department of Epidemiology, Human Genetics and Environmental Sciences, Center for Infectious Diseases, Houston, Texas, 2024-present.

Associate Professor (Tenured), The University of Texas Health Science Center, School of Public Health, Department of Epidemiology, Human Genetics and Environmental Sciences, Center for Infectious Diseases, Houston, Texas, 2017-2024.

Regular Faculty Member, University of Texas MD Anderson Cancer Center UTHealth Graduate School of Biomedical Sciences, Microbiology and Infectious Diseases Program, 2015-present.

Assistant Professor (Tenure-Track), The University of Texas Health Science Center, School of Public Health, Department of Epidemiology, Human Genetics and Environmental Sciences, Center for Infectious Diseases, Houston, Texas, 2012-2017.

Graduate Research Assistant, The University of Texas Health Science Center, School of Public Health, Center for Infectious Diseases, Houston, Texas, 2008-2012.

Graduate Research Assistant**,** Stephen F. Austin State University, Nacogdoches, Texas, 2006-2008.

C. RESEARCH

(I) Patents Issued/Pending

1. DuPont, H. L., Z. D. Jiang, E. Brown, and **Charles Darkoh.** Application No. 11745200.3-2103, PCT/US2011025170. Filed February 17, 2011, entitled Methods of treating infection.
2. **Darkoh, Charles**, L. M. Lichtenberger, E. J. Dial, and H. L. DuPont. U.S. Publication 20120196887 (Application No. 13/364,589 filed February 2, 2011), entitled Methods and compositions for improved rifamycin therapies.

3. **Darkoh, Charles**, H. B. Kaplan, and H. L. DuPont. U.S. Application No. 61/491,726 filed May 31, 2011, entitled Methods and Compositions for the Detection of Functional *Clostridium difficile* toxins.
4. **Darkoh, Charles,** H. L. DuPont, and Heidi B. Kaplan. U. S. Application No. 61/673961. Filed July 20, 2012, entitled "Methods and compositions to enhance the detection of *Clostridium difficile* toxins."
5. **Darkoh, Charles**, U.S. Provisional Patent Application No. *62/247,570,* Filed October 28, 2015, entitled Methods and compositions to inhibit *Clostridium* toxins.
6. **Darkoh, Charles,** U.S. Provisional Patent Application No. 62/473,675, Filed March 20, 2017, entitled "Antimicrobial compositions and co-agents to treat resistant infections".

(II) Peer-Reviewed Publications

1. Ajami, Nadim, H. Koo, **C. Darkoh**, R. L. Atmar, P. C. Okhuysen, Z. D. Jiang, J. Flores, H. L. DuPont. 2010. Characterization of norovirus-associated traveler's diarrhea. Clinical Infectious Diseases. 15; 51(2):123-30. PMID: 20540620.
2. **Darkoh, C.**, M. El-Bouhssini, M. Baum, and B. Clack. 2010. Characterization of a prolylendoprotease from *Eurygaster integriceps* puton (Sunn pest) infested wheat. Archives Insect Biochemistry and Physiology; 74 (3):163-178. PMID: 20568295.
3. **Darkoh, C.**, L. M. Lichtenberger, N. Ajami, E. J. Dial, Z. D. Jiang, and H. L. DuPont. 2010. Bile acids improve the antimicrobial effect of rifaximin. Antimicrobial Agents and Chemotherapy, 54 (9): 3618-3624. PMID: 20547807.
4. **Darkoh, C.**, H. B. Kaplan, and H. L. DuPont. 2011. Harnessing the glucosyltransferase activities of *Clostridium difficile* for functional studies of toxins A and B. Journal of Clinical Microbiology, 49(8):2933-41.
5. **Darkoh, C**., and H. L. DuPont. 2011. Unraveling the role of host endocytic proteins in pedestal formation during enteropathogenic *E. coli* infection. Journal of Infectious Diseases, 667-667. DOI: 10.1093/infdis/jir391.
6. **Darkoh, C.**, H. L. DuPont, H. B. Kaplan. 2011. A novel approach for the detection of toxigenic *Clostridium difficile* from stool samples. Journal of Clinical Microbiology. 49(12): 4219-4224.
7. **Darkoh, C.**, Eric L. Brown, Heidi B. Kaplan, Herbert L. DuPont. 2013. Bile Salt Inhibition of Host Cell Damage from *Clostridium difficile* Toxins. PLoS One 8(11): e79631. doi: 10.1371/journal.pone.0079631.
8. **Darkoh, C**., L. Comer, G. Zewdie, S. Harold, N. Snyder, H. L. DuPont. 2014. Chemotactic Chemokines are Important in the Pathogenesis of Irritable Bowel Syndrome. PLoSOne. 9(3):e93144. doi: 10.1371/journal.pone.0093144.

9. **Darkoh, C.,** Bradley Turnwald, Zhi-Dong Jiang, Hoonmo L. Koo, Kevin Garey, and Herbert DuPont. 2014. Colonic Immunopathogenesis of *Clostridium difficile* Infections. Clinical and Vaccine Immunology. 21(4):509-17. doi: 10.1128/CVI.00770-13.
10. Yandamuri, R.C., Gautam, R., **Darkoh C**., Vanitha Dareddy, V., El-Bouhssini, M., and Clack, B.A. 2014. Cloning, Expression, Sequence Analysis and Homology Modeling of the Prolyl Endoprotease from *Eurygaster integriceps Puton.* Insects. *5*, 762-782, doi:10.3390/insects5040762.
11. **Darkoh, C**., H. L. DuPont, S. J. Norris, and H. B. Kaplan. 2015. Toxin Synthesis by *Clostridium difficile* is Regulated through Quorum Signaling. mBio. 6:e02569-02514, doi: 10.1128/mBio.02569-14. PMID: 25714717.
12. **Darkoh**, **C.**, C. Chappell, C. Gonzales, and P. Okhuysen. 2015. A Rapid and Specific Method for the Detection of Indole in Complex Biological Samples. Applied and Environmental Microbiology. 81(23):8093-7, doi: 10.1128/AEM.02787-15. Epub September 18, 2015. PMID: 26386049.
13. Chappell, C., **C. Darkoh**, L. Shimmin, N. Farhana, K. Do-Kyun, P. Okhuysen, and J. Hixson. 2016. Fecal Indole as a Biomarker of Susceptibility to *Cryptosporidium* Infection. Infection and Immunity. 84(8):2299-306. doi: 10.1128/IAI.00336-16. PMID: 27245413.
14. **Darkoh, C**., C. Odo*, and H.L. DuPont. 2016. Accessory Gene Regulator-1 Locus is Essential for Virulence and Pathogenesis of *Clostridium difficile*. mBio. 7(4): e01237-16. doi:10.1128/mBio.01237-16. PMID: 27531912
15. *Tsai, I.H., D.E. Graves, W. Chan, **C. Darkoh**, M. Lee, L. A. Pompeii. 2017. Environmental barriers and social participation in individuals with spinal cord injury. Rehabilitation Psychology. 62(1):36-44. doi: 10.1037/rep0000117. PMID: 28045281.
16. *Heather, T. E., **C. Darkoh**, E. McHugh, and E. Brown. 2017. The *Clostridium difficile* Quorum-Sensing Molecule Alters the *Staphylococcus aureus* Toxin Expression Profile. International Journal of Antimicrobial Agents. 49(3):391-393. doi: 10.1016/j.ijantimicag.2017.01.001. PMID: 28111286.
17. **Darkoh, C**. and H. L. DuPont. 2017. The accessory gene regulator-1 as a therapeutic target for *C. difficile* infections. Expert Opinion on Therapeutic Targets. 21(5):451-453. doi: 10.1080/14728222.2017.1311863. PMID: 28338356.
18. **Darkoh, C**., M. Deaton*, H.L. DuPont. 2017. Nonantimicrobial Drug Targets for *Clostridium difficile* infections. Future Microbiol. 12: 975-985. doi: 10.2217/fmb-2017-0024. PMID: 28759258.
19. Okyere, Ama*, D. Bishoff*, M. Oyaro, N. Ajami, and **C. Darkoh**. 2018. Analysis of Fish Commonly Sold in Local Supermarkets Reveals the Presence of Pathogenic and Multidrug-Resistant Bacterial Communities. Microbiol Insights. doi: 10.1177/1178636118786925. eCollection 2018. PMID: 30038503.

20. Oyaro MO, K. Plants-Paris*, D. Bishoff*, P. Malonza, C. Gontier, H.L. DuPont, **C. Darkoh**. 2018. High rate of *Clostridium difficile* among young adults presenting with diarrhea at two hospitals in Kenya. Int J Infect Dis. 74:24-28. doi: 10.1016/j.ijid.2018.06.014. PMID: 29960098.
21. Plants-Paris* K, Bishoff D, Oyaro MO, Mwinyi B, Chappell C, Kituyi A, Nyangao J, Mbatha D, **Darkoh C.** 2019. Prevalence of *Clostridium difficile* Infections Among Kenyan Children with Diarrhea. International journal of infectious diseases : IJID : official publication of the International Society for Infectious Diseases.
22. **Darkoh, C.**, Plants-Paris* K., Bishoff D., DuPont HL. 2019. *Clostridium difficile* Modulates the Gut Microbiota by Inducing the Production of Indole, an Interkingdom Signaling and Antimicrobial Molecule. mSystems. 19:4(2).pii: e00346-18. doi: 10.1128/mSystems.00346-18. PMID: 30944877 PMCID: PMC6426650.
23. Martinez P.J., A. Farhan, M. Mustafa, N. Javaid, **C. Darkoh**, Garrido-Sanabria E, Fisher-Hoch S.P., Briles D.E., Kantarci A., Mirza S. 2019. PspA facilitates evasion of pneumococci from bactericidal activity of neutrophil extracellular traps (NETs). Microb Pathog. 36:103653. doi: 10.1016/j.micpath.2019.103653. PMID:31398527.
24. Carstens* C.K., J.K. Salazar, **C. Darkoh**. 2019. Multistate Outbreaks of Foodborne Illness in the United States Associated With Fresh Produce From 2010 to 2017. Front Microbiol. 10:2667. doi: 10.3389/fmicb.2019.02667. PMID: 31824454.
25. Onwona-Kwakye M., Plants-Paris* K., Keita K., Lee* J., Brink, P.J.V.D., Hogarh J.N., **Darkoh, C**. Pesticides Decrease Bacterial Diversity and Abundance of Irrigated Rice Fields. Microorganisms. 2020 Feb 25;8(3). doi: 10.3390/microorganisms8030318. PubMed PMID:32106524.
26. Amboree*, T. L., **C. Darkoh**. 2021. Barriers to Human Papillomavirus Vaccine Uptake Among Racial/Ethnic Minorities: a Systematic Review, Journal of Racial and Ethnic Health Disparities, 8(5):1192-1207. PMID: 33025422.
27. Tadese*, B., Nutt, A., Chaudhary, I., Offiong, C., **Darkoh, C**. (2021). Regional Outbreak of Multidrug-Resistant *Klebsiella pneumoniae* Carbapenemase-Producing *Pseudomonas aeruginosa*. Infection Control & Hospital Epidemiology, 1-3. PMID: 34593069. doi:10.1017/ice.2021.394
28. Amboree*, T.L., Montealegre, J.R., Fujimoto, K., Mgbere, O., **Darkoh, C**., Wermuth, P.P. 2022. Exploring Preventive Healthcare in a High-Risk Vulnerable Population. Int. J. Environ. Res. Public Health, 19, 4502. PMID: 33025422. https://doi.org/10.3390/ijerph19084502
29. **Darkoh, C.**, Keita*, K., Odo*, C., Oyaro, M., Brown, E.L., Arias, C.A., Hanson, B. M., DuPont, H. L. 2022. Emergence of Clinical *Clostridioides difficile* Isolates With Decreased Susceptibility to Vancomycin. Clin Infect Dis. 74(1):120-126. doi: 10.1093/cid/ciaa912. PMID: 35016207; PMCID: PMC8752249.

30. Tadese* B. K., Olumuyiwa, T., **Darkoh, C**. 2022. Emergence of Dual and Multicarbapenemase Coproducing Organisms in the United States. Antimicrob Steward Healthc Epidemiol. 2(1): e19. doi: 10.1017/ash.2022.6. Epub 2022 February 3. PMID: 35274108; PMCID: PMC8903192.
31. Tadese*, B.K., Fujimoto, K., DeSantis, S.M., Mgbere, O., **Darkoh, C**. 2022. Regional Transmission Patterns of Carbapenemase-Producing Enterobacterales: A Healthcare Network Analysis. Infect Control Hosp Epidemiol. 2022 Apr 22:1-7. doi: 10.1017/ice.2022.102. PMID: 35450553.
32. Amboree*, T.L., Montealegre, J.R., Fujimoto, K., Mgbere, O., **Darkoh, C.**, Wermuth, P. P. 2022. Exploring Preventive Healthcare in a High-Risk Vulnerable Population. Int J Environ Res Public Health. 19(8):4502. doi: 10.3390/ijerph19084502. PMID: 35457380.
33. Alkhulaifi*, F., **Darkoh, C**. 2022. Meal Timing, Meal Frequency and Metabolic Syndrome. Nutrients. 14(9):1719. doi: 10.3390/nu14091719. PMID: 35565686; PMCID: PMC9102985.
34. Amboree*, T.L., Montealegre, J.R., Wermuth, P.P., Mgbere, O. Kayo Fujimoto, K., **Darkoh, C**., 2022. Awareness of human papillomavirus and reported human papillomavirus vaccine uptake in a high-risk population, Preventive Medicine Reports, 28:101853. doi: 10.1016/j.pmedr.2022.101853. PMID: 35733608.
35. Tadese*, B.K., **Darkoh, C.**, DeSantis, S.M., Mgbere, O., Fujimoto, K. 2022. Clinical Epidemiology of Carbapenem-Resistant Enterobacterales in the Greater Houston Region of Texas: A 6-year Trend and Surveillance Analysis. J Glob Antimicrob Resist. June 25, 2022; 30:222-227. doi: 10.1016/j.jgar.2022.06.019. PMID: 35764216.
36. Keita*, K., **Darkoh, C**., Okafor, F. 2022. Secondary plant metabolites as potent drug candidates against antimicrobial-resistant pathogens. SN Appl Sci. 2022;4(8):209. doi: 10.1007/s42452-022-05084-y. PMID: 35821909.
37. Carstens*, C., Salazar, J., Sharma, S.V., Chan, W., **Darkoh, C**. 2022. Food Safety Attitudes, Behaviors, and Hygiene Measures among Predominantly Low-Income Parents. J Food Prot. doi: 10.4315/JFP-22-179. Online ahead of print. PMID: 36048912.
38. Carstens*, C., Salazar, J., Sharma, S.V., Chan, W., **Darkoh, C**. 2022. Evaluation of the Kitchen Microbiome and Food Safety Behaviors of Predominantly Low-Income Families, Frontiers in Microbiology, DOI: 10.3389/fmicb.2022.987925. PMID: 36246211
39. Tadese* BK, DeSantis SM, Mgbere O, Fujimoto K, **Darkoh C**. 2022. Clinical Outcomes Associated with Co-infection of Carbapenem-Resistant Enterobacterales and other Multidrug-Resistant Organisms. Infect Prev Pract. 2022 Oct 17;4(4):100255. doi: 10.1016/j.infpip.2022.100255. PMID: 36387607; PMCID: PMC9649373.
40. Amboree* TL, Wermuth PP, Montealegre JR, Fujimoto K, Mgbere O, **Darkoh C**. Sexual Behaviors and Human Papillomavirus Vaccination in a Heterosexually

Active Adult Population at Increased Risk for HIV Infection. Arch Sex Behav. 2023 Feb;52(2):793-801. doi: 10.1007/s10508-022-02438-w. Epub 2022 October 18. PMID: 36255610.

41. Osaghae*, I., **Darkoh, C**., Onyema Greg Chido-Amajuoyi, O.G., Chan, W., Wermuth, P.P., Pande, M., Sonia A Cunningham, S.C., Shete, S., 2022. Association of provider HPV vaccination training with provider assessment of HPV vaccination status and recommendation of HPV vaccination. Hum Vaccin Immunother. October 20, 2022; 2132755. doi: 10.1080/21645515.2022.2132755. Online ahead of print. PMID: 36265005.

42. Osaghae*, I., **C. Darkoh**, O. Chido-Amajuoyi, W. Chan, P. Wermuth, M. Pande, S. A. Cunningham, S. Shete. 2022. HPV Vaccination Training of Healthcare Providers and Perceived Self-Efficacy in HPV Vaccine-Hesitancy Counseling. *Vaccines* 2022, *10*(12), 2025, https://doi.org/10.3390/vaccines10122025

43. Osaghae*, I., **Darkoh, C**., Chido-Amajuoyi, O.G., Chan, W., Padgett Wermuth, P.; Pande, M., Cunningham, S.A., Shete, S. Healthcare Provider's Perceived Self-Efficacy in HPV Vaccination Hesitancy Counseling and HPV Vaccination Acceptance. Vaccines 2023, 11, 300. https://doi.org/10.3390/vaccines11020300

44. Adesoji A.T., Mgbere O., **Darkoh C**. Pediatric Diarrhea Patients Living in Urban Areas have a Higher Incidence of *Clostridioides difficile* Infection. PLOS Glob Public Health. 2023 Jan 24;3(1): e0000477. doi: 10.1371/journal.pgph.0000477. PMID: 36962940; PMCID: PMC10022077.

45. Alkhulaifi*, Fatema, Suad Al-Hooti, Sameer Al-Zenki, Husam AlOmirah, and **Charles Darkoh**. 2023. "Dietary Habits, Meal Timing, and Meal Frequency in Kuwaiti Adults: Analysis of the Kuwait National Nutrition Surveillance Data" *Nutrients* 15, no. 21: 4537. https://doi.org/10.3390/nu15214537

46. Mgbere O., Nwabuko O.C., Olateju O.A., Adepoju O.E., Liaw W., **Darkoh, C**., Essien EJ. Population-based assessment of the burden of COVID-19 infection in African countries: a first-year report card and public health implications. Ther Adv Infect Dis. 2023 Sep 28;10:20499361231202116. doi: 10.1177/20499361231202116. PMID: 37779674; PMCID: PMC10540606.

47. Vaziri* C. and **Darkoh, C**. Environmental contamination contributing to the spread of vancomycin-resistant enterococci in nursing homes. The Lancet. 2023 Nov;4(11):e587-e588. doi: 10.1016/S2666-7568(23)00197-6. PMID: 37924838.

48. Alkhulaifi* F, Al-Hooti S, Al-Zenki S, Alomirah H, Xiao Q, Chan W, Wu F, **Darkoh, C**. Association of Nightly Fasting, Meal Frequency, and Skipping Meals with Metabolic Syndrome among Kuwaiti Adults. Nutrients. 2024 Mar 28;16(7):984. doi: 10.3390/nu16070984. PMID: 38613017; PMCID: PMC11013774.

49. Christina K. Carstens*, Salazar JK, Sharma S, Chan W, **Darkoh, C**. Viability discrimination of bacterial microbiomes in home kitchen dish sponges using propidium monoazide treatment. Environ Microbiol Rep. 2024 Oct;16(5):e70006. doi: 10.1111/1758-2229.70006. PMID: 39440931; PMCID: PMC11497490.

50. Adesoji, A., Mgbere, O., **Darkoh, C**. Association Between the Duration of Diarrhea and the Length of Hospitalization Among Clostridioides difficile Patients in Northern Nigeria. Acta Microbiol. Hell. 2024, 69(4), 236-244; https://doi.org/10.3390/amh69040022
51. Desai M, Sharma SV, Fokom Domgue J, Chido-Amajuoyi O, Yu R, Chan W, **Darkoh, C.**, Shete S. Healthcare professionals' awareness of and barriers to shared-clinical-decision-making for HPV vaccination among adults 27-45 years. Hum Vaccin Immunother. 2025. 21(1):2560061. doi: 10.1080/21645515.2025.2560061. Epub 2025 Sep 18. PMID: 40966492; PMCID: PMC12452441.
52. Onigbogi MO, Mgbere O, Rowan P, Li R, **Darkoh C**. Population-Based Analysis of Synergistic Effects of Functional Disability and Comorbidities on Retention in HIV Care Among People With HIV. *Journal of the International Association of Providers of AIDS Care (JIAPAC)*. 2026;25. doi:10.1177/23259582251411352
53. Desai M, Sharma S, Fokom-Domgue J, Yu R, Chan W, Chido-Amajuoyi O, **Darkoh C**, Shete S. Vaccination-Related Applications and Health Care Professionals' Observed Changes in Human Papillomavirus Vaccine Hesitancy: Cross-Sectional Survey. JMIR Mhealth Uhealth 2026;14:e77778. URL: https://mhealth.jmir.org/2026/1/e77778. DOI: 10.2196/77778
54. Desai, M.; Sharma, S.V.; Fokom Domgue, J.; Yu, R.; Chan, W.; Darkoh, C.; Shete, S. Association of Receipt of Human Papillomavirus Vaccination and Personal History of Cancer Diagnosis in the United States: A Cross-Sectional Study Using NHIS Data. *Cancers* **2026**, *18*, 2945. https://doi.org/10.3390/cancers18182945

(III) Manuscripts In Review/Submitted

1. Modupe Olajumoke Onigbogi*, Osaro Mgbere, Paul Rowan, Ruosha Li, **Charles Darkoh**. Population-Based Analysis of Synergistic Effects of Functional Disability and Comorbidities on Retention in HIV Care Among People with HIV. 2025. Journal of the International Association of Providers of AIDS Care (under review).
2. Modupe Olajumoke Onigbogi*, Osaro Mgbere, Paul Rowan, Ruosha Li, **Charles Darkoh**. Epidemiology of Disability Among People with HIV in Houston, Texas: A Population-Based Assessment of Prevalence, Risk Factors, and Implications for Care. 2025. AIDS Care (Under review).

(IV) Book Chapters

1. **Darkoh, C.** and Odo*, Chioma. 2016. The *Clostridium difficile* Toxins: Mechanism of Action and Immunopathogenesis: In Protein Purification:

Principles and Trends. Chapter 11, IConcept Press Ltd. ISBN 978-1-922227-40-9.

2. **Darkoh, C**., and Asiedu, G.A. 2015. Quorum Sensing Systems in Clostridia, p. 133-154. *In* V. C. Kalia (ed.), Quorum Sensing vs Quorum Quenching: A Battle with No End in Sight. Springer India. ISBN 978-81-322-1982-8.
3. **Darkoh, C.,** 2011. Isolation, purification, and characterization of gluten-specific enzyme from Sunn pest, *Eurygaster integriceps*. MS thesis. ProQuest. 106 pages. (ISBN-10: 1243420138, ISBN-13: 978-1243420138).
4. **Darkoh, C.** and Antwi-Boasiako, Kwame Badu. 2007. "Benin." *In* Global Perspectives on the United States: A Nation-by-Nation Survey: Volume 1, pp. 50-53. Edited by David Levinson and Karen Christensen, Great Barrington, MA: Berkshire Publishing Group.

*** = Student mentee**

(V) Invitations and Abstract Presentations

Peer-Reviewed Published Abstracts

1. **Darkoh, C.**, L. M. Lichtenberger, N. Ajami, E. J. Dial, Z. D. Jiang, and H. L. DuPont. **2010**. Bile acids improve the bioavailability and bacteriostatic effect of rifaximin. Gastroenterology, Volume 138, Issue 5, Pages S-5.
2. Ajami, Nadim, H. Koo, **C. Darkoh**, R. L. Atmar, P. C. Okhuysen, Z. D. Jiang, J. Flores, H. L. DuPont. 2010. Characterization of norovirus-associated traveler's diarrhea. Gastroenterology, Volume 138, Issue 5, Pages S-629.

Presentations

1. Guest Speaker, University of Nairobi (August 10, 2023). Immunopathogenesis of *Clostridioides difficile* infections, Nairobi, Kenya.
2. Guest Speaker, University of Nairobi (September 6, 2022). Status of *Clostridioides difficile* infections in Kenya, Nairobi, Kenya.
3. Speaker, 2nd Annual Texas Medical Center Antimicrobial Resistance Research and Stewardship Conference (January 23-25, 2019), Targeting Toxin Production and Toxin Activity as a Novel Non-Antibiotic Therapy for *Clostridium difficile* Infections, Bioscience Research Collaborative, Houston, Texas.
4. Guest Speaker, University of Texas Health Science Center at San Antonio (October 20, 2019). Interracial Modulation of the Gut Microbiota by *Clostridium difficile*: Impact on Pathogenesis and Treatment, San Antonio, Texas.
5. Speaker, 2nd Annual Texas Medical Center AMR and Stewardship Conference (January 23-25, 2019). Targeting Toxin Production and Toxin Activity as a Novel Non-Antibiotic Therapy for *Clostridium difficile* Infections. Houston, Texas.

6. Poster talk, ASM Microbe 2017, General Meeting of the American Society for Microbiology, (June 1-5, 2017). *Clostridium difficile* Modulates the Gut Microbiota by Inducing the Expression of Indole, an Inter-Kingdom Signaling and Antimicrobial Molecule, New Orleans, Louisiana.
7. Poster presentation, ASM Microbe 2017, General Meeting of the American Society for Microbiology, (June 1-5, 2017). *Clostridium difficile* Modulates the Gut Microbiota by Inducing the Expression of Indole, an Inter-Kingdom Signaling and Antimicrobial Molecule, New Orleans, Louisiana.
8. Guest speaker, 4th Annual International Raising C. *difficile* Awareness Conference and Health EXPO (September 20, 2016), Targeting Toxin Production and Toxin Activity as a Novel Non-Antibiotic Therapy for Clostridium *difficile* Infections, Atlanta, Georgia.
9. Invited speaker, Anaerobe 2016 (July 11-16th), Quorum sensing in *Clostridium difficile*, Nashville, Tennessee.
10. Invited speaker, Microbiology and Molecular Genetics Department Seminar Series, University of Texas Medical School (December 3, 2015). Regulating to Wreak Mayhem: The Case of *Clostridium difficile* Toxins, Houston, Texas.
11. 115th General Meeting of the American Society for Microbiology, (May 29-June 3, 2015). Agr Quorum Signaling-Dependent Regulation of *Clostridium difficile* Toxin Production and Pathogenesis, New Orleans, Louisiana.
12. Invited speaker, American Society for Microbiology, Texas Branch-Spring Meeting, (November 6-8, 2014). Uncovering the Role of Quorum Signaling in *Clostridium difficile* Pathogenesis, Houston, Texas.
13. Abstract presentation (October 18 - 21, 2014) American Society for Microbiology 5th ASM Conference on Cell-Cell Communication in Bacteria, Toxin Synthesis by *Clostridium difficile* is Stringently Regulated Through Quorum Signaling, San Antonio, Texas.
14. Guest speaker, Molecular Virology and Microbiology Seminar Series, Baylor College of Medicine, (November 21, 2013), A New Paradigm of *Clostridium difficile* Virulence and Pathogenesis, Houston, Texas.
15. Invited speaker, American Society for Microbiology, Texas Branch-Spring Meeting, (April 6, 2013). A New Paradigm of *C. difficile* Toxin Regulation, New Braunfels, Texas.
16. Texas Medical Center Digestive Diseases Center GI Forum (March 14, 2013). Harnessing the Power of the Community to Wreak Havoc: A New Paradigm of *C. difficile* Toxin Regulation. Baylor College of Medicine, Houston, Texas.
17. Oral presentation (March 19, 2012). Harnessing the Power of the Community to Wreak Havoc: The Case of *Clostridium difficile*. Texas A&M Institute of Biosciences, Houston, Texas.

18. Oral presentation (November 6-9, 2011). Regulation of Toxin Production in *Clostridium difficile*. American Society for Microbiology 4th ASM Conference on Cell-Cell Communication in Bacteria, Miami, Florida.
19. Oral presentation (November 10-12, 2011). Regulation of Toxin Production in *Clostridium difficile*. American Society for Microbiology-Texas Branch, University of Texas at Arlington, Arlington, Texas.
20. Oral presentation (June 28, 2011). Mechanism of Toxin Production in *Clostridium difficile*. Molecular Basis of Infectious Diseases Training Grant Summer Undergraduates research program. The University of Texas Health Science Center, Houston, Texas.
21. Oral presentation (March 24, 2011). Detection of Toxigenic *Clostridium difficile* by Harnessing the Glucosyltransferase Activities of its Toxins. Molecular Basis of Infectious Diseases Training Grant Retreat. The University of Texas Health Science Center, Houston, Texas.
22. Oral presentation (May 1-5, 2010). Bile acids improve the antimicrobial effect of rifaximin. American Gastroenterological Association, Digestive Diseases Week, Bile acids improve the bioavailability and bacteriostatic effect of rifaximin, New Orleans, Louisiana.
23. Poster presentation (March 26, 2010): Molecular Basis of Infectious Diseases (MBID) Retreat, Bile acids improve the Bioavailability and Bacteriostatic Effect of Rifaximin, Houston, Texas.
24. Oral presentation (June 30, 2010). Quorum sensing-mediated regulation of toxin production in *C. difficile*. Molecular Basis of Infectious Diseases (MBID) Summer Undergraduate program, Houston, Texas.
25. Poster presentation (April 25, 2008): Bright Ideas Conference, Stephen F. Austin State University, Characterization and purification of prolylendopeptidase from *Eurygaster integriceps,* Nacogdoches, Texas.
26. Poster presentation and Graduate Student Volunteer (February, 2008): Joint 52nd Annual Meeting of the Biophysical Society and 16th IUPAB International Biophysics Congress, Characterization and purification of prolylendopeptidase from *Eurygaster integriceps*, Long Beach, California.

(VI) Research Support

Current Research Support

1. **Title**: Characterizing Vancomycin-Resistant *C. difficile* Strains at Two Geographically Distinct Locations.
   Funding agency: NIH-NIAID R01 Grant #: R01AI150685
   Goal: Characterize vancomycin resistance in *Clostridioides difficile*.
   Project period: April 1, 2021 – March 31, 2027
   Role: Principal Investigator
   Direct cost: $ 2,433,685.00

2. **Title**: Polyclonal antibodies for *Clostridioides difficile* infections
   Funding agency: Wellcome Trust
   Goal: Evaluate polyclonal antibodies for the treatment of patients infected by *Clostridioides difficile*.
   Project period: 07/01/2027-10/31/2029
   Role: Principal Investigator
   Direct cost: $2,275,000.00

Completed Research Support

1. **Title:** Texas Medical Center Training Program in Antimicrobial Resistance
   Funding agency: NIH-INRSA Grant # T32AI141349
   Goal: Train new scientists in antimicrobial resistance research
   Project Period: 07/01/2019 – 06/30/2024
   Role: Co-investigator. Principal Investigator: Cesar Arias (contact person)

2. **Title:** Molecular Basis of Infectious Diseases Training Grant
   Funding agency: NIH-INRSA Grant # T32AI055449
   Goal: Train new scientists in microbiological research and current challenges in clinical infectious diseases.
   Project Period: 09/15/2005 – 05/31/2026
   Role: Co-investigator. Principal Investigator(s): Theresa M. Koehler, Ph.D.; Steven J. Norris Ph.D. (contact person)

3. **Title**: Emergency and Everyday Use of Elastomeric Respirators in Healthcare
   Funding agency: Centers for Disease Control (National Institutes of Health)
   Goal: Evaluate disinfecting methods for elastomeric respirators for use by healthcare workers.
   Project period: 09/01/2018-10/31/2023
   Role: Co-Investigator
   Direct cost: $696,833.00

4. **Title**: Targeting the Toxins: A Novel Non-Antimicrobial Approach to Combat *Clostridium difficile* Infections.
   Funding agency: NIH-NIAID R01 Grant # R01AI116914
   Goal: Develop a novel non-antibiotic treatment for *C. difficile* infections by targeting both toxin production and toxin activity.
   Project period: June 15, 2015 - May 31, 2021
   Role: Principal Investigator

5. **Title:** Development of a Novel One-Step Method for Detection and Isolation of Active Toxin-Producing *Clostridium difficile* Strains Directly from Stool Samples.
   Goal: Develop a diagnostic test for *Clostridium difficile* infections.

Funding agency: University of Texas Pioneer Award
Project period: November 2012- September 2019
Role: Principal Investigator

6. **Title**: The Role of Acyloxyacyl Hydrolase in the Pathogenesis of Irritable Bowel Syndrome
   Funding agency: Gillson-Longenbaugh Foundation
   Goal: Investigate the role of acyloxyacyl hydrolase and genetic alterations in the pathogenesis of irritable bowel syndrome.
   Project period: January 1, 2013- January 1, 2019
   Role: Principal Investigator

7. **Title:** Mechanism of *Clostridium difficile* Pathogenesis
   Goal: Investigate the mechanism of toxin synthesis regulation in *Clostridium difficile.*
   Funding agency: The University of Texas Health Science Center at Houston School of Public Health Prime Award
   Project period: April 2013 - April 2014
   Role: Principal Investigator

8. **Title:** Quorum Signaling-Mediated Regulation of *Clostridium difficile* Toxin Production
   Goal: Elucidate the quorum-signaling compound responsible for toxin synthesis regulation in *Clostridium difficile.*
   Funding agency: Texas Medical Center Digestive Diseases Center Pilot/Feasibility Grant
   Project period: February 2013 - January 2014
   Role: Principal Investigator

Pending Awards/Applications

1. **Title**: Comprehensive Assessment of *Clostridioides difficile* Infections in East and West Africa
   Funding agency: NIH-NIAID PF5 Grant
   Goal: Establish a center for infectious diseases and pandemic preparedness.
   Project period: July 1, 2027 – June 30, 2032
   Role: Principal Investigator
   Direct cost: $ 6,554,185

2. **Title**: A Novel Plant-Based Anti-Virulence Compound Targeting *Clostridioides difficile* Pathogenesis
   Funding agency: NIH-NIAID R01
   Goal: Preclinically evaluate anti-virulence compounds to develop a novel treatment for *C. difficile* infections.
   Project period: April 1, 2027– March 31, 2032

Role: Principal Investigator
Direct cost: $ 2,488,135

Submitted but not funded

1. **Title**: Center for Antimicrobial Resistance and Emerging Infectious Diseases in Africa
   Funding agency: NIH-NIAID U01 Grant
   Goal: Establish a center for infectious diseases and pandemic preparedness.
   Project period: June 1, 2025 – May 31, 2030
   Role: Principal Investigator
   Direct cost: $ 6,151,420.00

1. **Title**: Insight into the Regulation of *C. difficile* Toxin Production and Virulence
   Funding agency: NIH-NIAID R01 Grant #: 1R01AI150704-01
   Goal: Characterize *Clostridium difficile* virulence-associated genes to uncover their roles in pathogenesis.
   Project period: April 1, 2020 – March 31, 2025
   Role: Principal Investigator
   Direct cost: $ 1,951,641.00

2. **Title**: Indole-Mediated Protection of Host Cells from Cryptosporidium Infection
   Funding agency: NIH-NIAID
   Goal: Examine the role of indole in Cryptosporidium Infections
   Project period: September 1, 2018 – August 31, 2020
   Role: Principal Investigator
   Direct cost: $275,000.00

3. **Title**: Molecular Epidemiology and Pathogenesis of *Clostridium difficile* in Kenya
   Funding agency: NIH-NIAID R01 Grant #: 1R01AI143549-02
   Goal: Characterize the epidemiology and pathogenesis of *Clostridium difficile* infections in Kenya.
   Project period: March 1, 2020 – February 1, 2025
   Role: Co-Investigator
   Direct cost: $675,000.00

4. **Title**: Optimizing Novel Anti-Virulence Drugs for the Treatment of *Clostridium difficile* Infections
   Funding agency: NIH-NIAID R21 Grant # RAI121608A
   Goal: Develop anti-virulence drugs for the treatment of *Clostridium difficile* infections.
   Project period: December 1, 2015 - November 30, 2020
   Role: Principal Investigator
   Direct cost: $1,175,000.00

5. **Title**: Regulation of *Clostridium difficile* Toxin Synthesis and Pathogenesis
   Funding agency: NIH-NIAID R01 Grant # RAI119033A
   Goal: To elucidate the mechanisms of regulation of *Clostridium difficile* toxin synthesis
   Project period: April 1, 2015 - March 31, 2020
   Role: Principal Investigator
   Direct cost: $1,250,000.00

6. **Title**: Mechanism of *Clostridium difficile* Toxin Production and Pathogenesis
   Funding agency: NIH-NIAID DP5 Grant # DOD017939A
   Goal: To elucidate the mechanisms of regulation of *Clostridium difficile* toxin synthesis
   Project period: September 1, 2013 - August 2018
   Role: Principal Investigator
   Direct cost: $1,250,000.00

7. **Title**: Novel Non-Antibiotic Approach to Combat *Clostridium difficile* Infections
   Funding agency: NIH-NIAID R21 Grant # RAI113414A
   Goal: To evaluate non-antibiotic compounds for the treatment of *Clostridium difficile* infections
   Project period: April 1, 2015 - March 31, 2017
   Role: Principal Investigator
   Direct cost: $275,000.00

D. ACADEMIC AND PROFESSIONAL HONOR/AWARDS/SCHOLARSHIPS

Faculty Awards

1. **R. Palmer Beasley, MD, and Lu-Yu Hwang, MD, Endowed Chair in Infectious Diseases and Global Health**, 2022.
2. **Carnegie African Diaspora Fellowship. 2017.**
3. **R. Palmer Beasley, M.D. Faculty Award for Innovation** (2015). The University of Texas Health Science Center at Houston, School of Public Health. Recognizes faculty members who exemplify innovative research in the field of public health.

Graduate student awards

1. **Dean's Research Scholarship Award (**2012). University of Texas Medical School at Houston, Texas. Recognizes senior graduate students in good academic standing who have achieved distinction in biomedical research.
2. **Robert W. and Pearl Wallis Knox Charitable Foundation Scholarship** (2012). University of Texas Graduate School of Biomedical Sciences. Honors a

promising student in good academic standing whose research is in the area of infectious diseases in humans.

3. **Thomas F. Burks Scholarship for Academic Merit** (2011-2012). A competitive university-wide scholarship awarded for excellence and academic achievement. University of Texas Health Science Center at Houston.
4. **S. E. Sulkin Medical Microbiology Award** (2011-2012). First Place in oral presentation and outstanding scientific achievement, The Texas Branch of American Society for Microbiology. University of Texas at Arlington, Arlington, Texas.
5. **UTHealth Golf Tournament Scholarship** (2011). University of Texas of Health Science Center. A competitive award given to graduate students with good academic standing.
6. **American Society for Microbiology Travel Award** (2011). Oral presentation at 4th ASM Conference on Cell-Cell Communication in Bacteria, November 6-9, 2011, Miami, Florida.
7. **UNCF/MERCK Graduate Science Research Fellowship Award** (2011). UNCF/MERCK Science Initiative, a nationally competitive award to recognize and support outstanding African Americans pursuing studies in research in the biological, chemical, and engineering sciences.
8. **The Ralph H. and Ruth J. McCullough Foundation Fellowship Award.** Honors an outstanding doctoral graduate student whose novel research possesses a high potential to impact biomedical sciences in the area of infectious diseases (2010-2011). The University of Texas Health Science Center, Houston, Texas.
9. **Molecular Basis of Infectious Diseases** (MBID) Training Grant award (2009-2011). A competitive National Institutes of Health-sponsored predoctoral training fellowship that supports outstanding predoctoral students in bacterial pathogenesis and the molecular basis of infectious diseases. 2009-2011. University of Texas Health Science Center, Houston, Texas.
10. **University of Texas Health Center Student Inter-Council Scholarship**. 2011. A competitive award given to graduate students with good academic standing.
11. Elected member, Beta Beta Beta (Tri Beta) National Biological Honor Society, 2007

Professional Membership

1. Member, The American Society for Microbiology, 2008-present
2. Member, American Association for the Advancement of Science, 2008-present
3. Member, American Gastroenterological Association, 2012-present
4. Member, Biophysical Society, 2006

5. Elected member, Golden Key International Honor Society, 2007

E. TEACHING

1. Laboratory Methods: Applications and Implications to Public Health (PH-2785), The University of Texas Health Science Center at Houston School of Public Health, Course Director, twice yearly, 2012-present (teaching effort =100%).
2. Epidemiology I (PHWM 2612L), The University of Texas Health Science Center at Houston School of Public Health, Course Director, Summer 2020-present (teaching effort = 100%)
3. Public Health Medical Microbiology (PH2805). The University of Texas Health Science Center at Houston School of Public Health, Course Co-Director, Spring 2017-present (teaching effort = 50%).
4. Microbial Pathogenesis, Baylor College of Medicine, Molecular Virology and Microbiology Program Course, Guest Lecturer, 2013-present.
5. Topics of Infectious Diseases, The University of Texas Health Science Center at Houston School of Public Health, Guest Lecturer, 2015-present.
6. Epidemiology I, The University of Texas Health Science Center at Houston School of Public Health, Guest Lecturer, Fall 2016-present.

STUDENT MENTORING

(I) Current Ph.D. Students

1. Ezinne Onuoha, Ph.D. in Epidemiology, Spring 2018-present.
2. Emily White, Ph.D. in Epidemiology, Fall 2019-present.
3. Kimberly Sonia Plants-Paris, Ph.D. in Epidemiology, Fall 2019- present.
4. Ifeyinwa Rebecca Felix-George, Ph.D. in Epidemiology, Fall 2022-present.
5. Jovita O. Echere, Ph.D. in Epidemiology, Fall 2022-present.
6. Fatima T. Z. Makkia, Ph.D. in Epidemiology, Fall 2022-present.
7. Amanda Ojaruega, Ph.D. in Epidemiology, Fall 2022-present.
8. Angelica Ikejiaku, Ph.D. in Epidemiology, Fall 2024-present.
9. Kadie Bhonopha, Ph.D. in Epidemiology, Fall 2026-present.
10. Jessica Lee, Ph.D. in Epidemiology, Fall 2019-2024.
11. Magdalena Deaton, Ph.D. in Epidemiology, Fall 2021-2024.
12. Angela Zieba, Ph.D. in Epidemiology, Fall 2022-2024.

(II) Current MS/MPH Students

1. Onyekachi Ahaiwe, MPH in Epidemiology, Fall 2026-present.
2. Vincente Quach, MPH in Epidemiology, Fall 2025-present.
3. Linda Akuffo, MPH in Epidemiology, Fall 2025-present.
4. Maheen A. Ansari, MPH in Epidemiology, Fall 2025-present.
5. Emily L. Pidgeon, MPH in Epidemiology, Fall 2025-present.
6. Yomy Mexicano, MPH in Epidemiology, Fall 2021-present.
7. Deshmukh, Indraneel Abhijit, MPH in Epidemiology, Fall 2023-present.
8. Tarique Azeez Tabaan, MPH Epidemiology, Fall 2024-present.
9. David Maly, MPH Epidemiology, Fall 2024-present.

(III) Ph.D. Students Graduated

1. Modupe Onigbogi, Ph.D. in Epidemiology, Fall 2020-2025, graduated August 2025.
2. Fatema Alkhulaifi, Ph.D. in Epidemiology, Fall 2018-2024, graduated May 2024.
3. Ikponmwosa Osaghae, Ph.D. in Epidemiology, Fall 2019-2023, graduated May 2023.
4. Christina Carstens, Ph.D. in Epidemiology, Fall 2017- 2022, graduated May 2022.
5. Bekana Tadese, Ph.D. in Epidemiology, Fall 2017-2022, graduated May 2022.
6. Trisha Amboree, Ph.D. in Epidemiology, Fall 2018-2022, graduated May 2022.
7. Hassan Oubote Sangbana, Ph.D. in Epidemiology, Fall 2015- 2020, graduated May 2020.
8. Arielle Hernandez, Ph.D. in Epidemiology, Fall 2016-2020, graduated May 2020.
9. Sharath Sherene Esther, Ph.D. in Epidemiology, Fall 2013- 2018, graduated August 2017.
10. Tsai, I-Hsuan, Ph.D. Epidemiology, Fall 2013-2014, graduated December 2014.

(IV) MS/MPH Students Graduated

1. Michael Efemena Diejomaoh, MPH Epidemiology, Fall 2023-2025.
2. Nicole Felix, MPH in Epidemiology, Fall 2021-2024.
3. Insia Raza, MPH in Epidemiology, Fall 2020-2024.

4. Urvi Vijay Mehta, MPH in Epidemiology, Fall 2021-2024.
5. Mace Adams, MPH in Epidemiology, Fall 2022-2024.
6. Shamanta R. Shivpura, MPH in Epidemiology, Fall 2021-August 2023.
7. Sara Ehsan, MPH in Epidemiology, Fall 2021-August 2023.
2. Adina Passy, MPH in Epidemiology, Fall 2021-2023, graduated May 2023.
3. Binh Tu Chau, MPH in Epidemiology, Fall 2020-2023, graduated May 2023.
4. Catherine Vaziri, MPH in Epidemiology, Fall 2020-2023, graduated May 2023.
5. Kalpana Karthikeyan, MPH in Epidemiology, Fall 2021-2023, graduated May 2023.
6. Ganiat Davies, MPH in Epidemiology, Fall 2020-2022, graduated August 2022.
7. Helen Conforti, MPH in Epidemiology, Spring 2020-2022, graduated May 2022.
8. Kate Benandi, MPH in Epidemiology, Fall 2020-2022, graduated May 2022.
9. Anna Beningo, MPH in Epidemiology, Fall 2018-2021, graduated May 2021.
10. Ayesha Mahmood, MS in Biomedical Sciences, Fall 2018-2020, graduated August 2020.
11. Oluwayemisi Adeyinka Aladejare, MPH in Epidemiology, Spring 2018-2020, graduated May 2020.
12. Grace of God Innocent-Utulu, MPH in Epidemiology, Fall 2018-2020, graduated May 2020.
13. Shafwanur Rahman, MPH in Epidemiology, Fall 2018-2020, graduated May 2020.
14. Emily White, MPH in Epidemiology, Fall 2016-2018, graduated May 2019
15. Kimberly Sonia Plants-Paris, MS in Epidemiology, Fall 2016- 2019, graduated May 2019.
16. Magdalena R. Deaton, MPH in Epidemiology, Fall 2016- 2019, graduated May 2019.
17. Rotem Magal, MS in Epidemiology, Fall 2016-2019, graduated May 2019.
18. Jessica Lee, MPH in Epidemiology, Fall 2016-2019, graduated May 2019.
19. Chioma Odo, MS in Biomedical Sciences, Fall 2016-2018, graduated August 2018.
20. Virginia K Lachman, MPH in Epidemiology, Spring 2016- 2018, graduated May 2018.

21. Ezinne Onuoha, MPH in Epidemiology, Fall 2016-2018, graduated December 2017.
22. Beena Vikas Shirole, MPH in Epidemiology, Fall 2015- 2017, graduated August 2017.
23. Feofanova, Elena Valeryevna, MS in Epidemiology, Fall 2013-2015, graduated August 2015.
24. Adegboyega Olaoluwa Oluwatobi, MPH in Epidemiology, Fall 2013- 2015, graduated May 2015.
25. Akpalu, Yao, MPH in Epidemiology, Fall 2013- 2015, graduated August 2015.
26. Ana Gomez-Rubio, MPH in Epidemiology, Fall 2013- 2015, graduated August 2015.

Individual Study/Practicum/Culminating Experience/Tutorial

1. Grace of God Innocent-Utulu, MPH in Epidemiology, Spring 2020.
2. Magdalena R. Deaton, MPH in Epidemiology, Fall 2018
3. Oluwayemisi Adeyinka Aladejare, MPH in Epidemiology, Fall 2018
2. Jessica Lee, MPH in Epidemiology, Fall 2018
3. Beena Vikas Shirole, MPH in Epidemiology, Summer 2017
4. Emily White, MPH in Epidemiology, Summer 2017
5. April H. Nguyen, Ph.D. Biomedical Sciences, GSBS Tutorial, Summer 2016
6. Data B. Don-Pedro, MPH in Occupational and Environmental Health, Individual Study, Spring 2016
7. Freida Okyere, MPH in Occupational and Environmental Health, Individual Study, Spring 2016
8. Kimberly S. Paris-Plants, MS in Epidemiology, Individual Study, Fall 2015
9. Ammar Saigal, Individual Study, Fall 2015
10. Yao Akpalu, MPH in Epidemiology, Culminating Experience, Summer 2015
11. Ana M. Gomez-Rubio, MPH in Epidemiology, Culminating Experience, Summer 2015
12. Yao Akpalu, MPH in Epidemiology, Culminating Experience, Spring 2015
13. Ana M. Gomez-Rubio, MPH in Epidemiology, Culminating Experience, Spring 2015
14. Oluwatobi O. Adeboyega, MPH in Epidemiology, Practicum, Fall 2014
15. Ana M. Gomez-Rubio, MPH in Epidemiology, Culminating Experience, Fall 2014
16. Heather T. Essigmann, MPH in Epidemiology, Practicum, Spring 2014

17. Ana M. Gomez-Rubio, MPH in Epidemiology, Practicum, Spring 2014
18. Saroochi Agarwal, Ph.D. in Epidemiology, Individual Study, Fall 2012

Graduated Students with Dissertation/Thesis

1. Modupe Onigbogi, Ph.D. in Epidemiology
   Dissertation Title: A Population-Based Assessment of Retention In Care and Clinical Outcomes Among People Living With Human Immunodeficiency Virus and Disability.
   Role: Committee Chair

2. Ikponmwosa Osaghae, Ph.D. in Epidemiology
   Dissertation Title: Leveraging the Role of Healthcare Providers to Increase HPV Vaccine Uptake in Texas.
   Role: Committee Chair

3. Carstens Christina, Ph.D. in Epidemiology
   Dissertation Title: Demographic Determinants of Food Safety Behaviors And Bacterial Contamination of Domestic Kitchens Among Low-Income Families.
   Role: Committee Chair

4. Bekana Tadese, Ph.D. in Epidemiology
   Dissertation Title: Clinical Epidemiology and Regional Transmission of Carbapenem-Resistant Enterobacterales in Texas.
   Role: Committee Chair

5. Trisha Amboree, Ph.D. in Epidemiology
   Dissertation Title: Exploring Human Papillomavirus Vaccination in a Population at High Risk for HIV Infection.
   Role: Committee Chair

6. Hassan Oubote Sangbana, Ph.D. in Epidemiology
   Dissertation Title: Determining the Driver of Quality of Life in HIV Patients Treated With Antiretroviral Therapy in Sub-Saharan Africa
   Role: Committee Chair

7. Arielle Hernandez, Ph.D. in Epidemiology
   Dissertation Title: Epidemiological Evaluation of the National Sickle Cell Screening Program in the Republic of Uganda
   Role: Committee Chair

8. Kimberly S. Paris-Plants, MS Epidemiology.
   Thesis Title: Oxidative Stress Response in *Clostridium difficile* and its Implication in Pathogenesis
   Role: Committee Chair

9. Rotem Magal, MS in Epidemiology
   Thesis Title: Understanding the Similarity and Diversity of the Accessory Gene Regulator Quorum Sensing Systems in the Genus Clostridium
   Role: Committee Chair

10. Sharath Sherene Esther, Ph.D. in Epidemiology
    Thesis Title: Factors Associated with Adherence to Claudication Therapy Among Veterans-The FAACT Study
    Role: Committee Chair

11. Chioma Odo, MS in Biomedical Sciences
    Thesis Title: Characterization of Metronidazole- and Vancomycin-Resistant Clinical Isolates of *Clostridium difficile*
    Role: Thesis Advisor

12. Feofanova, Elena Valeryevna, MS Epidemiology
    Thesis Title: A Large-scale Candidate Gene Association Study of Blood Pressure Change in Children and Adolescents.
    Role: Academic Advisor/Thesis Committee member

13. Akpalu, Yao, MPH in Epidemiology
    Thesis: Buruli Ulcer: Insight Into the Epidemiology, transmission, Prevention, and Control
    Role: Thesis Advisor

14. Ana Gomez-Rubio, MPH Epidemiology
    Thesis: Incidence of Bacterial Tracheitis in Pediatric Patients with Artificial Airways
    Role: Thesis Advisor

Dissertation/Thesis Committee Membership

1. Erika, Flores, Ph.D., Microbiology and Infectious Diseases, MD Anderson UTHealth Graduate School of Biomedical Sciences, 2018- present
   Dissertation Title: The Role of Muc2 Sulfation in Shaping the Adherence and Colonization of Adherent-invasive *E. coli* in the Gut.
   Role: Committee member

2. Chukwuemeka Ezeikpe Nwackwu, Ph.D. Epidemiology, UTHealth School of Public Health, graduated in May 2021.
   Dissertation Title: Evaluating and Improving the Hepatitis B Virus Perinatal Transmission Prevention Program in Nigeria.
   Role: Committee member

3. Feofanova, Elena Valeryevna, MS Epidemiology, Graduated in August 2015
   Thesis Title: A Large-scale Candidate Gene Association Study of Blood Pressure Change in Children and Adolescents
   Role: Committee member

4. Heather T. Essigmann, MPH, Epidemiology, graduated in December 2015
   Thesis Title: C*lostridium difficile* Quorum Sensing Molecule on Growth and Virulence Factor Production in S*taphylococcus aureus*
   Role: Committee member

5. Rahman Mohammed, Ph.D. Biostatistics, graduated in May 2015
   Dissertation Title: Sparse Structural Equations and Integrated Genomic and Epigenomic Analysis
   Role: External reviewer

6. Tsai, I-Hsuan, Ph.D. Epidemiology, graduated in December 2014
   Dissertation Title: The Factors for Social Participation in People with Spinal Cord Injury
   Role: Committee member

G. SERVICE TO THE INSTITUTION, SCHOOL, PROFESSION, AND COMMUNITY

(I) Service to the Profession and Grant Review Panels

National Institutes of Health Grant Review Panel/Study Sections

1. Member, PO1 applications, 2026/10 Council Round ZRG1 DCAI S (40), Center for Scientific Review 08/6-7/2026.

2. Mail Reviewer, 2026 NIH Director's Pioneer Award program (DP1), 2026 ZRG1 MBBC-N (70) R, Center for Scientific Review Special Emphasis Panel

3. Member, 2026/01 AIRT, Anti-Infective Resistance and Targets Study Section, Applied Immunology and Disease Control Integrated Review Group, National Institutes of Health, January 13, 2026.

4. Member, 2025/05 ZAI1 KLM-D (M1) 2, Support for Research Excellence (SuRE) Award (R16) and Support for Research Excellence First Independent Research (SuRE-First), April 22-23, 2025.

5. Member, 2025/05 ZRG1 MBBC-J (70) R. NIH Director's Pioneer Award Review, April 16-17, 2025.

6. Member, Topics in Bacterial Virulence, 2024/05 ZRG1 BV-Y (91) S, 04/18/2024, National Institutes of Health.

7. Member, Topics in Drug Discovery and Molecular Pharmacology, 2024/10 ZRG1 DCAI-U (90) S, 07/15/2024, National Institutes of Health.

8. Member, NIH Director's New Innovator Award Program (DP1), 2024/05 ZRG1 MBBC-N (70) R, Center for Scientific Review Special Emphasis Panel.

9. Member, National Institute of Allergy and Infectious Diseases Special Emphasis Panel, Support for Research Excellence (SuRE) Award (R16) 2024/01 ZAI1 MMO-D (J1)1, November 7, 2023.

10. Member, 2023/10 ZRG1 AIRT-J (01) Q, Anti-Infective Resistance and Targets Study Section, National Institutes of Health, June 13-14, 2023.

11. Member, NIH Director's New Innovator Award Program (DP1), 2023/05 ZRG1 MBBC-N (70) R, Center for Scientific Review Special Emphasis Panel, April 3-5, 2023.

12. Member, 2023/01 ZAI1 RK-M (J1) 1: NIAID Clinical Trial Planning Grants (R34); NIAID SBIR Phase II Clinical Trial Implementation Cooperative Agreement (U44); NIAID Clinical Trial Implementation Cooperative Agreement (U01), National Institutes of Health, October 18, 2022.

13. Adhoc Member, 2022/05 ZRG1 DDR-B (01): Drug Discovery and Mechanisms of Antimicrobial Resistance Study Section, National Institutes of Health, March 1-2, 2022.

14. 2022/10 ZRG1 DDR-C (01) Q: Drug Discovery and Mechanisms of Antimicrobial Resistance Study Section, National Institutes of Health, June 23-24, 2022.

15. 2022/05 ZRG1 CVRS-B (70)S, NIH Director New Innovator Award Program (DP2), May 2022.

16. 2022/05 ZRG1 BCMB-N (50) R, RFA-RM-21-015: 2022 Pioneer Award Review.

17. Member, P01 SAS-M J1 Review Meeting, NIAID Investigator-Initiated Program Project Applications, National Institutes of Health, September 27-28, 2021.

18. Member, NIH Director's New Innovator Award Program (DP2), 2021/05 ZRG1 CVRS-A (70) S, March 16-17, 2021.

19. Member, 202010 ZRG1 IDM B81 Review Meeting, Topics in Bacterial Pathogenesis Study Section, National Institutes of Health, June 30, 2020.

20. Member, IDM-B (81) Review Meeting, Topics in Bacterial Pathogenesis Study Section, National Institutes of Health, March 13, 2020.

21. Member, ZRG1 IDM-U (02) M, Drug Discovery, Clinical, and Field Research Special Emphasis Panel Study Section, National Institutes of Health, December 10, 2019.

22. Member, 2019/10 ZRG1 IDM-B (02) M, Member Conflict: Bacterial Pathogenesis Study Section, National Institutes of Health, July 10, 2019.

23. Member, ZRG1 IDM-S 02 M, Member Conflict: Topics in Drug Discovery and Clinical Field Studies Study Section, National Institutes of Health, November 19, 2018.

24. Ad hoc member, Scientific Review Group, Drug Discovery and Mechanisms of Antimicrobial Resistance (DDR) Study Section, National Institutes of Health, June 2017.

25. Ad hoc member, Review Panel, International Research in Infectious Diseases, National Institutes of Health, November 2016.

26. Reviewer- Research Proposals, Czech Health Research Council, Ministry of Health, Czech Republic, September 2016-Present.

27. Ad hoc member, Scientific Review Group, Bacterial Pathogenesis Study Section, National Institutes of Health, June 2016.

28. Member, Scientific Review Board of the Rehabilitation Research and Development Service, Spinal Cord Injury and Neuropathic Pain Panel, U.S. Department of Veterans Affairs, 2015.

Journal Editorial Membership

1. Member, Board of Editors, mBio, July 2023-present

2. Editorial Board member, Journal of Antimicrobial Agents and Chemotherapy, American Society for Microbiology, 2021-present.

3. Associate Editor, Frontiers in Gastroenterology, 2021-present.

Journals Peer Review

I have reviewed manuscripts for the following journals:

1. The Lancet
2. mBio
3. PLOS Pathogens
4. Journal of Infectious Diseases

5. Antimicrobial Agents and Chemotherapy
6. mSphere
7. Clinical Microbiology and Infection
8. BMC Microbiology
9. Clinical Infectious Diseases
10. Infection and immunity
11. Journal of Clinical Microbiology
12. PLOS One
13. Journal of Bacteriology
14. Pathogens
15. Microbial Pathogenesis
16. Gastroenterology

(II) Service to the Institution--University of Texas Health Science Center (UTHealth) at Houston

1. Member, Admissions Committee, School of Public Health, University of Texas Health Science Center, 2020-present.
2. Member, Microbiology and Infectious Diseases Program Admission Sub-Committee, MD Anderson Cancer Center UTHealth Graduate School of Biomedical Sciences, 2017-present.
3. Member, Membership Committee, University of Texas MD Anderson Cancer Center UTHealth Graduate School of Biomedical Sciences, 2020-present.
4. Member, Radiation Safety Committee, University of Texas Health Science Center, 2012-present.
5. Member, Admissions Committee, University of Texas MD Anderson Cancer Center UTHealth Graduate School of Biomedical Sciences, 2016-2020.
6. Member, Microbiology and Infectious Diseases Program Steering Committee, MD Anderson Cancer Center UTHealth Graduate School of Biomedical Sciences, 2017-2021.
7. Member, Academic Standards Committee, University of Texas Graduate School of Biomedical Sciences, 2011-2012.

(III) Service to the UTHealth School of Public Health

1. Member, Admissions Committee, School of Public Health Epidemiology Program, University of Texas Health Science Center, 2020-present.

2. Member, The Inclusion, Diversity, Equity, and Advocacy (IDEA) Committee, The University of Texas Health Science Center, School of Public Health, 2018-2023.
3. Chair, Faculty Diversity Committee, The University of Texas Health Science Center, School of Public Health, 2014-2018.
4. Poster Judge, The University of Texas Health Science Center, School of Public Health, Student Research Day, March 31, 2016.
5. Poster Judge, The University of Texas Health Science Center, School of Public Health, Student Research Day, April 6, 2017.

(IV) Service to the Community

1. Media interview: Contagion Live
   Title: *Clostridium difficile* Infections and Pathogenesis
   Date: August 17, 2016

2. Media interview: Boston Globe
   Title: *Clostridium difficile* infections
   Date: August 16, 2016

3. Media interview: Science News
   Title: *Clostridium difficile* infections
   Date: August 12, 2016

4. Media interview: Science Daily
   Title: *Clostridium difficile* infections
   Date: July 22, 2016