

CURRICULUM VITAE

Eric Luís Brown, PhD

Center for Infectious Diseases
Division of Epidemiology
School of Public Health
University of Texas Health Science Center
1200 Pressler RAS E-719
Houston, TX 77030

Phone: 713-500-9355
E-mail: eric.l.brown@uth.tmc.edu

Updated: 10.14.24

ACADEMIC POSITIONS:

- 2020- Professor/with tenure
 Center for Infectious Diseases
 University of Texas Houston
 School of Public Health
 Houston, TX
- 2020- Adjunct Associate Professor
 Department of Translational Medical Science
 Texas A&M College of Medicine
 Institute of Biosciences and Technology
- 2016-2020 Associate Professor/with tenure
 Center for Infectious Diseases
 University of Texas Houston
 School of Public Health
 Houston, TX
- 2011-2016 Associate Professor/tenure track
 Center for Infectious Diseases
 University of Texas Houston
 School of Public Health
 Houston, TX
- 2010-2011 Assistant Professor/tenure track
 Center for Infectious Diseases
 University of Texas Houston
 School of Public Health
 Houston, TX
- 2005-2010 Assistant Professor/non-tenure track
 Center for Infectious Diseases
 University of Texas Houston
 School of Public Health
 Houston, TX

2004-2005 Discipline Scientist-Immunology
University of Houston
Wyle Laboratories Bioastronautics Team/NASA-JSC
Human Adaptation & Countermeasures
Houston, TX

2001-2004 Research Assistant Professor
Texas A&M University System Health Science Center
Institute of Biosciences and Technology
Center for Extracellular Matrix Biology
Houston, TX

2000-2001 Assistant Research Scientist
Texas A&M University System Health Science Center
Institute of Biosciences and Technology
Center for Extracellular Matrix Biology
Houston, TX

1996-1999 Postdoctoral Research Associate
Texas A&M University System Health Science Center
Institute of Biosciences and Technology
Center for Extracellular Matrix Biology
Houston, TX

EDUCATION:

1990-1996 Graduate School of Biomedical Sciences
The University of Texas M.D. Anderson Cancer Center
Houston, TX.
PhD in Immunology under the supervision of Dr. Margaret L. Kripke
Thesis: "The Effect of Ultraviolet Radiation on Borrelia burgdorferi Infections."

1985-1989 Texas A&M University
College Station, TX
B.S. in Biology

RESEARCH INTERESTS:

Immunology, infectious diseases, microbiology, parasitology, vaccine development, infectious disease epidemiology, human genetics of infectious disease, microbiome.

TEACHING EXPERIENCE:

2006-present Medical Microbiology, University of Texas School of Public Health
(on-line and in-person)

2006-present Immunology, University of Texas School of Public Health

2005-present Tropical Infectious Diseases, University of Texas School of Public Health

	(on-line and in-person)
2010-2012	Genetics of Infectious Diseases (co-instructor), University of Texas School of Public Health
2008-2009	Emerging Bacterial Diseases (co-instructor), University of Texas School of Public Health
2010-2013	Infectious Diseases Journal Club, University of Texas School of Public Health
2003-2004	Advanced Topics in Biomedical Science, Graduate School of Biomedical Science, Texas A&M University Health Science Center
2000-2004	Microbial Pathogenesis, Department of Extracellular Matrix Biology, Texas A&M Health Science Center

HONORS AND AWARDS:

2018	John P. McGovern Outstanding Teacher Award
2010	Dean's Teaching Excellence Award, University of Texas School of Public Health
2009	Dean's Teaching Excellence Award, University of Texas School of Public Health
2008	Dean's Teaching Excellence Award, University of Texas School of Public Health
1993-1996	Smith Fellow, M. D. Anderson Cancer Center

COMMITTEES AND ACTIVITIES:

2023-2024	Chair, Environmental and Occupational Health Sciences Faculty Search Committee
2023-	Co-coordinator, Infectious Diseases Certificate Program
2022-2023	Member, Committee for the Review of Endowed Positions
2022	Member, Texas Epidemic Public Health Institute Director Search Committee
2022-2023	Member, Preparedness Faculty Search Committee
2021-present	Interim Director, Center for Infectious Diseases, Division of Epidemiology, Human Genetics, and Environmental Sciences
2020-present	Chair, Admissions Committee, Division of Epidemiology, Human Genetics, and Environmental Sciences
2021	Chair, Tenure and Promotion Committee
2020	Co-Chair, Tenure and Promotion Committee
2018-2022	Chair, Center for Infectious Diseases Faculty Search Committee
2012-present	Member of the National School of Tropical Medicine, Baylor College of Medicine
2011-present	Editorial Board, <i>Infection and Immunity</i>
2011-present	Biosafety Committee, University of Texas School of Public Health
2016-2020	Admissions Committee, Division of Epidemiology, Human Genetics, and Environmental Sciences

2009-2016	Scholarship Committee, Division of Epidemiology
2002-present	Member, American Association of Immunologists
2002-2016	Member, American Society for Microbiology
2011-2014	Research Council, University of Texas School of Public Health
2011-2012	Chair, Center for Infectious Diseases Faculty Search Committee
2011-2012	Public Health Innovation Search Committee
2011	Annual Award for Excellence in Teaching Selection Committee
2011	Antimicrobial Resistance Discussion Panel Participant, World Health Day
2000-2004	Member, Texas A&M Institute of Biosciences and Technology ARAC committee
2000-2004	Member, Texas A&M Institute of Biosciences and Technology Animal Care and Use Committee
2000-2004	Member, Texas A&M Institute of Biosciences and Technology Equipment Committee
2003	Scientific Advisory Board Meeting, Inhibitex Inc., Alpharetta, GA
2000	Expert witness for the Texas Senate Committee on Administration focusing on tick-borne illnesses in Texas and issues relating to prevention and treatment of Lyme disease

PEER REVIEW AND STUDY SECTION:

Peer reviewer for the following journals:

Infection and Immunity (Editorial Board Member 2011-present)
Clinical Vaccine Immunology
Journal of Clinical Investigation
Journal of Clinical Investigation Insight
Journal of Bacteriology
Journal of Clinical Microbiology
European Journal of Clinical Microbiology and Infectious Diseases
Journal of Medical Microbiology
Microbial Pathogenesis
PLoS One
Scientific Reports
Expert Review of Gastroenterology & Hepatology
Journal of Medical Microbiology
Journal of Pediatric Infectious Diseases
Epidemiology and Infection
European Journal of Clinical Microbiology and Infectious Diseases
JSM Arthrosclerosis
Virulence
Journal of Antibiotics
Case Reports in Orthopedics

Full Member, NIH Bacterial-Host Interactions Study Section (formerly Host Interactions with Bacterial Pathogens Study Section) (2022-2025)

Ad hoc member, NIH Host Interactions with Bacterial Pathogens Study Section (October 2021)

Ad hoc member, NIH Host Interactions with Bacterial Pathogens Study Section (June 2021)

Ad hoc member, NIH Host Interactions with Bacterial Pathogens Study Section (February 2021)

Ad hoc member, NIH Immunity and Host Defense Study Section (October 2018)

Ad hoc member, NIH Host Interactions with Bacterial Pathogens Study Section (February 2018)

Ad hoc member, NIH Host Interactions with Bacterial Pathogens Study Section (June 2017)

Ad hoc member, NIH Host Interactions with Bacterial Pathogens Study Section (June 2016)

Ad hoc member, NIH Immunity and Host Defense Study Section (February 2016)

Ad hoc member, NIH Immunity and Host Defense Study Section (June 2015)

Ad hoc member, NIH Genetic Variation and Evolution Study Section (June, 2014)

Ad hoc member, NIH Special Emphasis Panel (2001)

Reviewer for NIOSH ERC Pilot Projects research training applications, University of Texas Health Science Center (2009-2011)

Reviewer of non-UT School of Public Health course materials for possible credit toward the MPH degree. The course materials reviewed were lecture and syllabus content from the Texas Tech Medical School microbiology class (2009).

PK-12 Reviewer, University of Texas Health Science Center (2007)

PUBLICATIONS:

Google Scholar (h-index 35):

<https://shorturl.at/b7oWM>

Pubmed:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/eric.brown.2/bibliography/40738471/public/?sort=date&direction=ascending>

1. L. Leining, T. Erickson, Craig L. Hanis, C. Bauer, M. Murry, **E.L. Brown**, R. Mejia, and Sarah M. Gunter. Epidemiologic investigation of protozoa and soil-transmitted helminths in Starr County, Texas. *Am J. Trop. Med. Hyg.* **2024**. In press.
2. M.C. Weiss, J. Sun, B.P. Jackson, M.E. Turyk, L. Wang, **E.L. Brown**, D. Aguilar, S.A. Brown, C.L. Hanis, M. Argos, and R.M. Sargis. Longitudinal glycemic changes in relation to urinary toxic/essential metals and metal mixtures among Mexican Americans living in Starr County, TX. *Diab. Care.* **2024**. DOI: 10.2337/dc24-0646. PMID:39277806
3. M.C. Weiss, J. Sun, B.P. Jackson, M.E. Turyk, L. Wang, **E.L. Brown**, D. Aguilar, C.L. Hanis, M. Argos, and R.M. Sargis. Predictors of toxic metal/metalloid exposures among Mexican Americans in Starr County, Texas. *J. Racial Ethn. Health Disparities.* **2024**. <https://doi.org/10.1007/s40615-024-02064-3>. PMID: 38969926.
4. F. Li, Y. Yano, L. Étievant, C. Daniel, S. Sharma, **E.L. Brown**, R. LI, E. Loftfield, Q. Lan, R. Sinha, B. Moshiree, M. Inoue-Choi, and E. Vogtmann. The time-dependent association between irritable bowel syndrome and all-cause and cause-specific

- mortality: a prospective cohort study with the UK biobank. *Am. J. Gastroenterol.* **2024**. 119(7):1373-1382. DOI: 10.14309/ajg.0000000000002675. PMID: 38275237.
5. S.A. Brown, M.A. Winter, H.A. Becker, A.A. Garcia, M.W. Velasquez, H. Tanaka, W.B. Perkison, **E.L. Brown**, D. Aguilar, and H.L. Hanis. Transitioning from in-person intervention to augmented text messaging during COVID-19 in Mexican Americans with prediabetes: The Starr County Diabetes Prevention Randomized Clinical Trial. *Diabetes Self-Manag. Care.* 50(2): 107-115. **2024**. <https://doi.org/10.1177/26350106241233475>. PMID: 38454633
 6. **E.L. Brown**, H.T. Essigmann, K.L. Hoffman, J. Petrosino, G. Jun, S.A. Brown, D.A. Aguilar, and C.L. Hanis. *Curr. Microbiol.* C-reactive protein levels correlate with measures of dysglycemia and gut microbiome profiles. **2024**. 81:45 <https://doi.org/10.1007/s00284-023-03560-1>. PMID: 38127093.
 7. J. Oghuan, C. Chavarria, S.R. Vanderwal, A. Gitter, A.A. Ojaruega, C. Monserrat, C.X. Bauer, **E.L. Brown**, S.J. Cregeen, J. Deegan, B.M. Hanson, M. Tisza, H.I. Ocaranza, J. Balliew, A.W. Maresso, J. Rios, E. Boerwinkle, K.D. Mena, and F. Wu. Wastewater analysis suggests unreported Mpox cases in a low-prevalence city: an environmental surveillance study. *Lancet Reg. Health - Am.* **2023**. 24:28:100639. DOI: 10.1016/j.lana.2023.100639. PMID: 38076410.
 8. F. Li, Y. Ramirez, Y. Yano, C.R. Daniel, S.V. Sharma, **E.L. Brown**, R. Li, B. Moshiree, E. Loftfield, Q. Lan, R. Sinha, M. Inoue-Choi, and E. Vogtmann. The association between inflammatory bowel disease and all-cause and cause-specific mortality in the UK biobank. *Ann. Epidemiol.* **2023**. Dec:88:15 - 22. DOI: 10.1016/j.annepidem.2023.10.008. PMID: 38013230.
 9. B.N. Metoyer, R. Chuang, M. Lee, C. Markham, **E. Brown**, M. Almohamad, and S.V. Sharma. SNAP participation moderates fruit and vegetable intake among minority families with low income. *J. Nurtr. Educ. Behav.* **2023**. 55:774 - 785. DOI: 10.1016/j.neb.2023.08.005. PMID: 37804263.
 10. **E.L. Brown**, H.T. Essigmann, K.L. Hoffman, A. Alexander, M. Newmark, Z.D. Jiang, J. Suescun, M.C. Schiess, C.L. Hanis, and H.L. DuPont. IgA-Biome profiles correlate with clinical Parkinson's disease subtypes. **2023**. *J. Parkinsons. Dis.* 13:501-213. PMID: 37212075.
 11. M.C. Weiss, Y. Hsuan, M.S. Bryan, B.P. Jackson, D. Aguilar, **E.L. Brown**, G. Jun, C.L. Hanis, M. Argos, R.M. Stargis. Arsenic metabolism, diabetes prevalence, and insulin resistance among Mexican Americans: A Mendelian randomization approach. **2023**. *Environ Adv.* <https://doi.org/10.1016/j.envadv.2023.100361> PMID: 37426694.
 12. B.N. Metoyer, R. Chuang, M. Lee, C. Markham, **E.L. Brown**, M. Almohamad, J.M. Dave, and S.V. Sharma. Fruit and vegetable shopping behavior intake and among low-income minority households with elementary-aged children. **2023**. *Nutrients.* 10(1):82 doi:10.3390/children10010082. PMID: 36670633.
 13. H.L. DuPont, J. Suescun, Z.D. Jiang, **E.L. Brown**, H.T. Essigmann, A.S. Alexander, A.W. DuPont, T. Iqbal, N.S. Utay, M. Newmark, and M.C. Schiess. Fecal microbiota transplantation in Parkinson's Disease - A randomized repeat-dose, placebo-controlled clinical pilot study. **2023**. *Front. Neurol.* <https://doi.org/10.3389/fneur.2023.1104759>. PMID: 36937520

14. F. Wu, J. Oghuan, A Gitter, K.D. Mena, and **E.L. Brown**. Wide mismatches in the sequences of primers and probes for Monkeypox virus diagnostic assays. **2023**. *J. Med. Virol.* DOI: 10.1002/jmv.28395. PMID: 36504122.
15. S.A Brown, H.A Becker, A.A. García, M.M. Velasquez, H. Tanaka, M.A. Winter, W.B. Perkison, **E.L. Brown**, D. Aguilar, and C.L. Hanis. Acculturation, eating behaviors, and macronutrient intake among Mexican Americans: The Starr County Diabetes Prevention Initiative. **2023**. *The Science of Diabetes Self-Management and Care Journal*. <http://doi:10.1177/26350106221146473>
16. B.N. Metoyer, R. Chuang, M. Lee, C. Markham, **E. Brown**, M. Almohamad, J.M. Dave, and S.V. Sharma. Fruit and vegetable shopping behavior and intake among low-income minority households with elementary-aged children. **2023**. *Children*. 10(1), 82; <https://doi.org/10.3390/children10010082>. PMID: 36670633
17. H.L. DuPont, Z.D. Jiang, A.S. Alexander, A.W. DuPont, and **E.L. Brown**. Intestinal IgA-coated bacteria in healthy- and altered-microbiomes (dysbiosis) and predictive value in successful fecal microbiota transplantation. **2022**. *Microorganisms*. 11(93). <http://doi.org/10.3390/microorganisms11010093>. PMID: 36677385.
18. N.B. Hebballi, L. Xie, A.A. Kane, **E.L. Brown**, M.S. Mathew, and S.E. Messiah. Estimated prevalence of facial injury-related mortality in the United States pediatric population. **2022**. *Dent. Traumatol.* DOI: 10.1111/edt.12813. PMID: 36573910.
19. H.T. Essigmann, C.L. Hanis, S.M. DeSantis, W.B. Perkison, D.A. Aguilar, G. Jun, D.A. Robinson, and **E.L. Brown**. Worsening glycemia increases the odds of intermittent but not persistent *Staphylococcus aureus* nasal carriage in two cohorts of Mexican American Adults. **2022**. 10(3). e0000922. DOI: 10.1128/spectrum.00009-22 *Microbiol. Spectr.* PMID: 35583495.
20. T.A. Erickson, S.E. Ronca, S.M. Gunter, **E.L. Brown**, R. Hasbun, and K.O. Murray. Zoonotic disease testing practices in pediatric patients with meningitis and encephalitis in a subtropical region. *Pathogens*. **2022**. 11(5):501; <https://doi.org/10.3390/pathogens11050501>. PMID: 35631022.
21. S.A. Brown, H.A. Becker, A.A. Garcia, M.M Velasquez, H. Tanaka, M.A. Winter, W.B. Perkison, **E.L. Brown**, D. Aguilar, and C.L. Hanis. The effects of gender and country of origin on acculturation, psychological factors, lifestyle factors, and diabetes-related physiological outcomes among Mexican Americans: The Starr County diabetes prevention initiative. *Chron. Illness*. **2022**. PMID: 35331025.
22. H.T. Essigmann, D.A. Aguilar, W.B. Perkison, K.B. Bay, M.R. Deaton, S.A. Brown, C.L. Hanis, and **E.L. Brown**. Epidemiology of antibiotic use and drivers of cross-border procurement in a Mexican American border community. *Front. Pub. Health*. **2022**. <https://doi.org/10.3389/fpubh.2022.832266>. PMID: 35356027.
23. C. Darkoh, K. Keita, C. Odo, M. Oyaró, **E.L. Brown**, C.A. Arias, B.M. Hanson, and H.L. DuPont. Emergence of clinical *Clostridioides difficile* isolates with decreased susceptibility to vancomycin. *Clin. Infect. Dis.* **2022**. 74 (1):120-126. PMID: 35016207.
24. H.T. Essigmann, K.L. Hoffman, J.F. Petrosino, G. Jun, D. Aguilar, C.L. Hanis, H.L. DuPont, and **E.L. Brown**. The impact of the Th17:Treg axis on the IgA-Biome across the glycemic spectrum. *PLoS One*. **2021**. 16(10):e0258812. PMID: 34669745.

25. T. Kieger Emmons, **E.L. Brown**, P. Nara, and H. Kohler. Expert Panel Discussion on Antigenic Sin. *Monoclon. Antibodies Immunodiagn. Immunother.* **2021**. 40(5):203-209. <https://doi.org/10.1089/mab.2021.0047>.
26. Z.Y. Jiang, Z. Huang, I. Schmale, **E.L. Brown**, M.C. Lorenz, S.J. Patlovich, K. Goswami, H.B. Wilson, J. Ahmad, R. Alexander, W. Bryan, L. Kurke, M.J. Citardi, J. Elias, T. Ho, J. Jacob, G. Low, P. Miramon, A.U. Patki, W.C. Yao, and A.U. Luong. N95 respirator reuse, decontamination methods, and microbial burden: A randomized controlled trial. *Am. J. Otolaryngol.* **2021**. 42(5): 103017. doi: 10.1016/j.amjoto.2021.103017. PMID: 33857782.
27. **E.L. Brown** and H.T. Essigmann. Original antigenic sin: the downside of immunological memory and implications for COVID-19. *mSphere*. **2021**. 6(2):00056-21. DOI: 10.1128/mSphere.00056-21. PMID: 33692194.
28. The Epidemiology of meningitis in infants under 90 days of age in large pediatric hospital. T.A. Erickson, F.M. Munoz, C.L. Troisi, M.S. Nolan, R. Hasbun, **E.L. Brown**, and K.O. Murray. *Microorganisms*. **2021**. 9(3):526. PMID: 33806478.
29. K.G. King, G. Delclos, J.M. Yamal, **E.L. Brown**, S.E. Tortolero, and R. Emory. An assessment of outpatient clinic room ventilation systems and possible relationship to disease transmission. *Am. J. Infect. Control.* **2021**. 49:808-812. PMID: 33485924.
30. **E.L. Brown**, H.T. Essigmann, K.L. Hoffman, N.W. Palm, S.M. Gunter, J.F. Petrosino, G. Jun, D. Aguilar, W.B. Perkison, C.L. Hanis, and H.L. DuPont. The impact of diabetes on the gut and salivary IgA Microbiomes. **2020**. *Infect. Immun.* 88(12). E00301-20. PMID: 32900816.
31. E. Israelsson, D. Chaussabel, R.S. Fischer, H.C. Moore, D.A. Robinson, J.W. Dunkle, H.T. Essigmann, S. Record, and **E.L. Brown**. Characterization of peripheral blood mononuclear cells gene expression profiles of pediatric *Staphylococcus aureus* persistent and non-carriers using a targeted assay. *Microb. Infect.* **2020**. S1286-4579(20)30144-1. PMID: 32758644.
32. J.B. Shewale, E.M. Corsini, A.M. Correa, **E.L. Brown**, L.G. Leon-Novelo, A.G. Nyitray, M.B. Antonoff, W.L. Hofstetter, R.J. Mehran, A.A. Vaporciyan, S.G. Swisher, and B. Sepesi. Time trends and predictors of survival in surgically resected early-stage non-small cell lung cancer patients. *J. Surg. Oncol.* **2020**. 122(3):495-505. PMID:32356321.
33. T.A. Erickson, E. Muscal, F. Munoz, R. Hasbun, and **E.L. Brown**, K.O. Murray. Infectious and autoimmune causes of encephalitis in children. *Pediatrics*. **2020**. 145(6): e20192543. PMID: 32358069
34. J.B. Shewale, A.M. Correa. **E.L. Brown**, L.G. Novelo Leon, A.G. Nyitray, M.B. Antonoff, W.L. Hofstetter, D.C. Rice, G.L. Walsh, J. Roth, A.A. Vaporciyan, S.G. Swisher, and B. Sepesi. Time trends of perioperative outcomes in early-stage non-small cell lung cancer resection patients. *Ann Thor. Surg.* **2019**. doi: <https://doi.org/10.1016/j.athoracsur.2019.09.031>.
35. M.S. Nolan, D. Aguilar, **E.L. Brown**, S.M. Gunter, S.E. Ronca, C.L. Hanis, and K.O. Murray. Continuing evidence of human Chagas disease along the Texas-Mexico border. *PLOS Neglected Tropical Diseases*. **2018**.12(11): e0006899. PMID: 304427833.
36. S.M. Gunter, L. Versteeg, K.M. Jones, B.P. Keegan, U. Strych, M.E. Bottazzi, P.J. Hotez, and **E.L. Brown**. Covalent vaccination with *Trypanosoma cruzi* Tc24 induces

- catalytic antibody production. *Parasite Immunol.* **2018.** 40(11):e12585. doi: 10.1111/pim.12585. PMID: 30132929.
37. S.M. Gunter, C. Cordray, R. Gorchakov, I. Du, B. Dittmar, **E.L. Brown**, K. Murray, and M. Nolan Garcia. Identification of white-tailed deer (*Odocoileus virginianus*) as a novel reservoir species for *Trypanosoma cruzi* in Texas. *J. Wildlife Dis.* **2018.** 54(4):814-818. doi:10.7589/2017-09-223. PMID: 29889005.
 38. L. Challagundla, X. Luo, I.A. Tickler, X. Didelot, D.C. Coleman, A.C. Shore, G.W. Coombs, D.O. Sordelli, **E.L. Brown**, R. Skov, A.R. Larsen, J. Reyes, I.E. Robledo, G.J. Vazquez, R. Rivera, P.D. Fey, K. Stevenson, S.H. Wang, B.N. Kreiswirth, J.R. Mediavilla, C.A. Arias, P.J. Planet, R.L. Nolan, F.C. Tenover, R.V. Goering, D.A. Robinson. Range Expansion and the Origin of USA300 North American Epidemic Methicillin-Resistant *Staphylococcus aureus*. *MBio.* **2018.** Jan-Feb; 9(1): e02016-17. PMID: 29295910.
 39. A.G. Nyitray, J.T. Hicks, L.Y. Hwang, S. Baraniuk, M. White, S. Millas, N. Onwuka, X. Zhang, **E.L. Brown**, M.W. Ross, and E.Y. Chiao. A Phase II clinical study to assess the feasibility of self- and partner anal exams to detect anal canal abnormalities including anal cancer. *Sex. Transm. Infect.* **2017.** PMID: 28835533.
 40. N.S. Leung, M.L. Vidoni, D.A. Robinson, P. Padgett, and **E.L. Brown**. A Community-based study of *Staphylococcus aureus* nasal colonization and molecular characterization among men who have sex with men. *LGBT Health.* 5:345-351. **2017.** PMID: 29022859.
 41. P. Mahale, E.A. Engles, L. Ruosha, H. Torres, L.Y. Hwang, **E.L. Brown**, and J. Kramer. The effect of sustained virological response on the risk of extrahepatic manifestations of hepatitis C virus infection. *Gut.* **2017.** PMID: 28634198.
 42. S.M. Gunter, K.M. Jones, C.A. Seid, H.T. Essigmann, B. Zhan, U. Strych, M.E. Bottazzi, P.J. Hotez, and **E.L. Brown**. Mutations to cysteine residues in the *Trypanosoma cruzi* B-cell superantigen Tc24 diminish susceptibility to IgM-mediated hydrolysis. *J. Parasitol.* **2017.** PMID: 28581897.
 43. C.L. Hanis, K. Garrett, H.T. Essigmann, D.A. Robinson, S.M. Gunter, A.G. Nyitray, and **E.L. Brown**. Household aggregation of *Staphylococcus aureus* by clonal complex and methicillin resistance profiles in Starr County, Texas. *Eur. J. Clin. Microbiol. Infect. Dis.* 36: 1787-1793. **2017.** PMID: 28474178.
 44. S.M. Gunter, K.O. Murray, R. Gorchakov, R. Beddard, S.N. Rossmann, S.P. Montgomery, H. Rivera, **E.L. Brown**, D. Aguilar, L.E. Widman, and M.N. Garcia. Likely autochthonous transmission of *Trypanosoma cruzi* to humans, Southcentral Texas, USA. *Emerging Infect. Dis.* **2017.** 23(3):494-497. doi:10.3201/eid2303.161157. PMID: 28221110.
 45. H.T. Essigmann, C. Darkoh, Erin E. McHugh, and **E.L. Brown**. The *Clostridium difficile* quorum-sensing molecule alters the *Staphylococcus aureus* toxin expression profile. *Int. J. Antimicrobiol. Ag.* **2017.** <http://dx.doi.org/10.1016/j.ijantimicag.2017.01.001>. PMID: 28111286.

46. M.J. Reid, A.P. Steenhoff, N. Mannathoko, C. Muthoga, E. McHugh, **E.L. Brown**, and R.S. Fischer. *Staphylococcus aureus* nasal colonization among HIV-infected adults in Botswana: Prevalence and risk factors. *AIDS Care*. 2017. PMID: 28127988.
47. P. Mahale, H.A. Torres, J.R. Kramer, L. Hwang, R. Li, **E.L. Brown**, and E.A. Engels. Hepatitis C virus infection and the risk of cancer among elderly US adults: A registry-based case-control study. *Cancer*. 2017. doi:10.1002/cncr.30559. PMID:28117886
48. M. Reid, R. Fischer, N. Mannathoko, C. Muthoga, E. McHugh, H.T. Essigmann, **E.L. Brown**, and A. Steenhoff. Prevalence of *Staphylococcus aureus* nasal carriage in HIV-infected and HIV-uninfected children in Botswana. *Am. J. Trop. Med. Hyg.* 2017. PMID: 28167588.
49. S.M. Gunter, **E.L. Brown**, R. Gorchakov, K.O. Murray, and M.N. Garcia. Sylvatic transmission of *Trypanosoma cruzi* among domestic and wildlife reservoirs in Texas, USA: A review of the historical literature. *Zoonoses and Public Health*. 2016. DOI: 10.1111/zph.12330. PMID: 27911051.
50. S. Agarwal, D.T. Nguyen, J. Lew, L.D. Teeter, J.M. Yamal, B. Restrepo, **E.L. Brown**, S. Dorman, and E.A. Graviss. Comparing TSPOT Assay Results between an Elispot Reader and Manual Counts. *Tuberculosis*. 2016. 101:S92-S98. PMID: 27727132.
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BOOK CHAPTERS:

1. A. Jeevan, E.L. Brown and M.L. Kripke. UV and Infectious Diseases. In *Photoimmunology-An Update*, J. Krutmann and C. Elmetts, Eds., Blackwell Science, Cambridge, MA **1995**, p.153.
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PATENTS AND DISCLOSURES:

Brown et al. International PCT Application PCT/US02/00401 Based on U.S. Provisional Application Serial No. 60/260, 523
 Title: "METHOD OF PREVENTING T CELL-MEDIATED RESPONSES USING THE S. AUREUS MAP PROTEIN"

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INVITED SPEAKER PRESENTATIONS:

1. 'A journey through Starr County, TX - from GWAS to the virome. Microbial Pathogenesis and Immunology Seminar Series. Texas A&M University Medical School. December 12, 2023.
2. 'Leveraging the immune system to combat Chagas disease.' 8th Annual Global Health Conference. Houston Global Health Collaborative. Houston, TX. March 7, 2020.
3. 'Microbiome and worsening glycemia among Mexican Americans in Starr County, Texas.' 3rd Annual Texas Medical Center Antimicrobial Resistance & Stewardship Conference Bioscience Research Collaboration Building, Houston, TX, January 22-24, 2020.
4. 'Development of the electrophilic Tc24 *Trypanosoma cruzi* vaccine candidate.' The University of Iowa Interdisciplinary Graduate Program in Immunology. Iowa City, IA. October 15, 2019.
5. 'Catalytic antibodies and B-cell superantigens'. Center for Infections and Inflammatory Diseases, Institute of Biosciences and Technology, Texas A&M University. Houston, TX. May 20, 2017.
6. 'Microbial superantigens and their impact on immunity. Feigin Center Research Seminars. Baylor College of Medicine. Houston, TX. October 23, 2014.
7. 'Constitutive Production of Catalytic Antibodies to the *Staphylococcus aureus* Virulence factor Efb and the Effect of Infection.' Key Note Address. Texas Branch for the American Association of Microbiologist, New Braunfels, TX. 2012.
8. 'The Changing Epidemiology of *Staphylococcus aureus*.' Greater Houston Dental Hygienists Society. December, 2009.
9. 'Is the *S. aureus* Panton-Valentine Leukocidin associated with disease severity?' Orthodontic Research Seminar, The University of Texas Dental School, Houston, TX. September 12, 2007.
10. 'Two is company, three is not a crowd: MSCRAMM-based vaccines.' Regional ASM, College Station, TX. November, 2003.
11. 'The *Staphylococcus aureus* secreted protein Efb binds C3 and inhibits complement activation.' Staphylococcal Gordon Research Conference, Oxford, England. September, 2003.
12. 'Microbial immunomodulatory molecules (MIMs) from *Staphylococcus aureus*.' The Institute for Molecular Pathogenesis and Therapeutics, Department of Medical Microbiology and Immunology College of Medicine. Texas A&M University Health Science Center, College Station, TX. April 2002.
13. 'The Decorin-binding protein from *B. burgdorferi*: From adhesin to vaccine. Institute of Molecular Medicine Seminar Series, The University of Texas Health Science Center, M.D. Anderson Cancer Center. August 2002.
14. 'Adhesins of *Borrelia burgdorferi*.' Gordon Research Conference, Ventura, CA. January 2002.
15. 'Immunomodulation by the *S. aureus* MHC analog protein Map'. Molecular Basis of Infectious Disease Seminar Series, Department of Pathology, UT Medical School, Houston, TX. January 2002.

16. 'A T cell line specific for *Borrelia burgdorferi* induces DTH and reduces the numbers of spirochetes recoverable from infected mice.' The Immunology of Persistent Infections, The 9th International Congress of Immunology, San Francisco, CA. July **1995**.

ABSTRACTS AND PRESENTATIONS:

1. The time-dependent association between irritable bowel syndrome and all-cause and cause-specific mortality in the NIH-AARP diet and health study F. Li, L.M. Liao, C.R. Daniel, S.V. Sharma, R. Li, **E.L. Brown**, Q. Lan, M. Inoue-Choi, B. Moshiree, R. Sinha, and E. Vogtmann. Digestive Diseases Week. May 18-21. Washington D.C. **2024**.
2. Aortic stiffness among Mexican-American adults with diabetes and prediabetes: Evidence of accelerated vascular aging and increased cardiac biomarkers. B. Pickard, C.L. Hanis, C.M. Ballantyne, **E.L. Brown**, G. Jun, and D. Aguilar. American Heart Association Annual Meeting. November 11-13. Philadelphia, PA. **2023**.
3. Seroprevalence and risk factors for neurocytotoxicosis in Mexican-Americans in Starr County, Texas. M.M. Duffey, E.M. O'Connell, L.M. Leining, N.L. Tang, C.L. Hanis, **E.L. Brown**, S.M. Gunter. 72nd Annual James Steele Conference on Diseases in Nature Transmissible to Humans. May 31 - June 2. San Antonio, TX. **2023**.
4. Impact of body mass index on pediatric complicated appendicitis and postoperative complications. N.B. Hebballi, K. Tsao, **E.L. Brown**, C. Markham, S. DeSantis. American Surgical Association. 143rd Annual Meeting. April 20-22. Toronto, Canada. **2023**.
5. GRASSROOTS HEALTH: Bringing Hepatitis B and C Education, Testing, Vaccination and Navigation to the Door of Individuals Living in Permanent Supportive Housing. Schick, V., Quan Chen, FT., Ndambakuwa, Y., Weber, E., Mangrem, S., Brown, C., **Brown, E.**, Essigmann, H., Roberts, L., Troisi, C. Oral Presentation at the American Public Health Association Annual Meeting. Boston, MA. **2022**.
6. Untargeted metabolomics on nutrient density and their genomic interaction among Mexican Americans. S. Chung, C. Evans, C. F. Burant, D. Aguilar, **E.L. Brown**, C.L. Hanis, G. Jun. American Society of Human Genetics. October 25-29. Los Angeles, CA. **2022**.
7. Epidemiology of vector-borne and neglected tropical diseases along the Texas-Mexico border. L.M. Leining, **E.L. Brown**, T.A. Erickson, K. Murray, and S.M. Gunter. 71st Annual James Steele Conference on Diseases in Nature Transmissible to Humans. June 7-9. Virtual Conference. **2022**.
8. Investigation of seroprevalence of Ehrlichiosis and Anaplasmosis along the Texas-Mexico border. J. Blackburn, L.M. Leining, F.C. Cramer, K.O. Murray, T.A. Erickson, **E.L. Brown**, and S.M. Gunter. American Society of Tropical Medicine and Hygiene. Annual Meeting October 30 - November 3. Seattle, WA. **2022**.
9. The seroprevalence and risk factors for spotted fever group and Typhus group Rickettsia along the Texas-Mexico border. F.M. Kramer, L.M. Leining, T.A. Erickson, J. Blackburn, C.L. Hanis, **E.L. Brown**, and S.M. Gunter. American Society of Tropical Medicine and Hygiene. Annual Meeting October 30 - November 3. Seattle, WA. **2022**.
10. Epidemiology of vector-borne and neglected tropical diseases along the Texas-Mexico border. L.M. Leining, R. Mejia, K.O. Murray, **E.L. Brown**, and S.M. Gunter. American Society of Tropical Medicine and Hygiene. 2021 Annual Meeting November 17-21, 2021.
11. Untargeted metabolomics on the diet behaviors and their genomic interactions among Mexican Americans. S. Chung, D. Aguilar, **E.L. Brown**, C.L. Hanis, C. Evans, C.F. Burant, and G. Jun. ASHAG Virtual Meeting. October 18-22. 2021.
12. Biomarkers C.O. Ajala, T.J. Ridolfi, E.Y. Chiao, M.E. Fernandez, V. Schick, A.R. Giuliano, **E.L. Brown**, M. Swartz, and A.G. Nyitray. Protocol of the Prevent Anal Cancer Study of

Self-Swabbing and Novel Protocol of the Prevent Anal Cancer Study of Self-Swabbing and Novel Biomarkers. Medical College of Wisconsin Cancer Center Scientific Retreat. Milwaukee, WI. April 26, 2019.

13. S.M Gunter, R. Gorchakov, C. Cordray, M. Sandoval, **E.L. Brown**, K.O. Murray, and M.N. Garcia. Sylvatic transmission of *Trypanosoma cruzi* among wildlife reservoirs in Texas: a review of the literature and update from contemporary studies. The James H. Steele Conference of Disease in Nature Transmissible to Man. Irving, Texas. May 24-26, 2017.
14. H. Chen, H. Hu, L.E. Petty, D.A. Robinson, H.T. Essigmann, R.S. Fischer, C.L. Hanis, C. Huff, **E.L. Brown**, and J.E. Below. Genome-wide association study of *Staphylococcus aureus* infection and clonal complexes in related samples from Starr County, Texas. American Society of Human Genetics. Vancouver, Canada, 18-22 October 2016.
15. M. Reid, R.S. Fischer, D.A. Robinson, X. Lou, N. Mannathoko, C. Muthoga, H.T. Essigmann, **E.L. Brown**, and A. Steenhoff. Molecular characterization of *Staphylococcus aureus* colonizing HIV-infected adults in Botswana. 21st International AIDS Conference. Durban, South Africa, 18-22 July 2016.
16. J.E. Below, H. Hu, B. Cade, D. Aguilar, **E.L. Brown**, H.M. Highland, S. Redline, G.I. Bell, C. Huff, N.J. Cox, C.L. Hanis. Completing The Picture: Capturing The Genetic Basis Of Untoward Glucose Metabolism Through Pleiotropic Analyses Of Glucose-related Traits In A Population From Starr County, Texas. American Diabetes Association, Boston, MA, 2015.
17. S.K. Murphy, Heather T. Essigmann, K.M. Jones, K.O. Murray, P.J. Hotez, and **E.L. Brown**. Identification and characterization of the *Trypanosoma cruzi* B-cell super antigen Tc24. American Association of Immunologists Annual Meeting. New Orleans, LA. May 8-12, 2015.
18. S.K. Murphy, Heather T. Essigmann, K.M. Jones, K.O. Murray, P.J. Hotez, and **E.L. Brown**. Identification and characterization of the *Trypanosoma cruzi* B-cell super antigen Tc24. Tropical Infectious Diseases Gordon Conference. Galveston, TX. March 8-12, 2015.
19. M. Reid, R. Fischer, N. Mannathoko, **E.L. Brown**, and A. Steenhoff. Risk factors for *Staphylococcus aureus* carriage in HIV-infected adults in Southern Botswana. Conference on Retroviruses and Opportunistic Infections (CORI). Washington State Convention Center, Seattle, Washington, USA. February 23-26, 2015.
20. M. Reid, R. Fischer, N. Mannathoko, **E.L. Brown**, and A. Steenhoff. Risk factors for *Staphylococcus aureus* carriage in HIV-infected adults in Southern Botswana. 5th Botswana International HIV Conference. Gaborone, Botswana, August 2014.
21. **E.L. Brown**, S.K. Murphy, and Heather T. Essigmann. 'Identification and characterization of the *Trypanosoma cruzi* Tc24 B-cell superantigen.' Fifteenth Annual Fancy Gap Immunoparasitology Workshop, Wake Forest, Winston-Salem, NC, October 9-12, 2014.
22. I. Tolo, J.C. Thomas, R.S. Bryson, **E.L. Brown**, B.M. Gray, and D.A. Robinson. Do *Staphylococcus epidermidis* genetic clusters predict isolation sources? International Symposium on Staphylococci and Staphylococcal Infections, Chicago, IL, August 2014.
23. J.E. Below, D. Aguilar, **E.L. Brown**, H.M. Highland, S. Redline, G.I. Bell, N.J. Cox, and C.L. Hanis. Genome wide association and exome sequence data analysis for more than

- 100 traits in Mexican Americans. 64th Annual Meeting of the American Society of Human Genetics, San Diego, CA, October 2014.
24. M. Grove, K.A. Volcik, and **E.L. Brown**. Interaction of immune-related genetic polymorphisms and breastfeeding duration with *Helicobacter pylori* prevalence: the Pasitos Cohort Study. 64th Annual Meeting of the American Society of Human Genetics, San Diego, CA, October 2014.
 25. S. Moraros, **E.L. Brown**, J.M. Yamal, E. Mason, and S. Kaplan. Weight-for-age percentile and its association to community acquired MRSA among pediatric patients in Houston, TX: 2008-2011. IDSA conference, San Francisco, CA, October 2013.
 26. Y. Nishiyama, **E.L. Brown**, S. Planque, C.V. Hanson, R.J. Massey, and S. Paul. Immunoglobulin catalytic activity: constitutive origin and adaptive down-regulation. ASBMB Special Symposium Trypsin-Like Proteases: Structure, Function and Regulation June 7 - 10, 2012; Granlibakken Resort and Conference Center, Tahoe City, CA. 2012.
 27. Y. Nishiyama, **E.L. Brown**, S. Planque, and C.V. Hanson. Proteolytic antibodies to superantigenic substrates: Innate origin and adaptive down-regulation. Gordon Research Conference (Proteolytic Enzymes and their Inhibitors). Renaissance Tuscany Il Ciocco Resort, Tuscany, Italy. June 17-22, 2012.
 28. Y. Nishiyama, **E.L. Brown**, Stephanie Planque, C.V. Hanson, R.J. Massey, and S. Paul. Immunoglobulin catalytic activity: constitutive origin and adaptive down-regulation. ASBMB Special Symposium Trypsin-Like Proteases: Structure, Function and Regulation June 7 - 10, 2012; Granlibakken Resort and Conference Center, Tahoe City, CA. 2012.
 29. J.S. Nichols, R.S. Day, B.J. Selwyn, **E.L. Brown**, G.R. Parkerson, and C. Coello-Gomez. Understanding Community Health Needs through Triangulation. Poster presentation for James K. Alexander Research Day at Baylor College of Medicine; won 2nd place in the 'Clinical Research' award category. 2009.
 30. J.S. Nichols, R.S. Day, B.J. Selwyn, **E.L. Brown**, G.R. Parkerson, and C. Coello-Gomez. Beyond the numbers: A triangulated approach to community health needs assessment in southwestern Honduras". Selected for poster presentation at Unite for Sight annual conference, New Haven, CT. April 2009.
 31. D. Clary, H.L. DuPont, C. Walker, Z. Jiang, and **E.L. Brown**. Pathogenic *E. coli* and Antibiotic-Resistant Bacteria Isolated from Household Water Sources from the Miches Watershed of the Dominican Republic. Unite for Sight Poster Presentation. Yale University, New Haven, CT. April 17-18, 2009.
 32. Y. Nishiyama, S. Planque, Y. Mitsuda, D. Ghosh, M. Hara, G. Nitti, C.V. Hanson, M. Escobar, and **E.L. Brown** and S. Paul. Catalytic IVIG? Page 1 of 10 International Forum on Immunoglobulin Research, Fort Lauderdale, FL. November 19-22, 2009.
 33. M.G. Bowden and **E.L. Brown**. The Panton Valentine Leukocidins Increase the Virulence of Community Acquired-Methicillin Resistant *S. aureus*. Presented at the Staphylococcal Gordon Conference, Les Diablerets, Switzerland. September 2-6, 2007.

34. **E.L. Brown**, K.F. Duncan, K. Smith, S. Planque and S. Paul. Identification and Characterization of Catalytic Antibodies to the *Staphylococcus aureus* Virulence Factor Efb. American Association of Immunologists Annual Meeting, Miami, FL. June 2007.\
35. M. Labandeira-Rey, **E.L. Brown**, F. Couzon, V. Vazquez, J. Etienne, M. Höök, F. Vandenesch, and M.G. Bowden. The Presence of PVL Enhances the Virulence of Community Acquired-Methicillin Resistant *Staphylococcus aureus*. Presented at the 105th Annual Meeting of the American Society for Microbiology, Atlanta, GA. May 2005.
36. M. Labandeira-Rey, **E.L. Brown**, F. Couzon, V. Vazquez, J. Etienne, M. Höök, F. Vandenesch, and M.G. Bowden. The Presence of PVL Enhances the Virulence of Community Acquired-Methicillin Resistant *S. aureus*. Presented at the Staphylococcal Gordon Conference, New Port, RI. September 2005.
37. **E.L. Brown**, D.S. Pikas, J. Skare, M. Labandeira-Rey and M. Höök. BBA73 is a Fibrinogen-binding MSCRAMM from *B. burgdorferi*. 6th Biology of Spirochetes Gordon Conference, Ventura, CA. January 25-29, 2004.
38. J. Kim, J. Singvall, U. Schwarz-Linek, **E.L. Brown**, J. Potts, B.J.B. Johnson, and M. Höök. 103rd General Meeting, American Association of Microbiologists, Washington, D.C. May 2003.
39. **E.L. Brown**, D.S. Pikas, J. Skare, M. Labandeira-Rey, and M. Höök. Identification of a fibrinogen-binding MSCRAMM from the Lyme spirochete *Borrelia burgdorferi*. 103rd General Meeting, American Association of Microbiologists, Washington, D.C. May 2003.
40. J. Kim, W. Probert, Barbara J.B. Johnson, M. Höök, and **E.L. Brown**. Characterization of two ligand-binding sites in BBK32; a fibronectin-binding MSCRAMM from *Borrelia burgdorferi*. Graduate Research Symposium, The Texas A&M University Health Science Center, College Station, TX. March 2002.
41. L.Y. Lee, M. Höök and **E.L. Brown**. Prevention of T cell responses by the *S. aureus* MHC class II analog protein (Map). Graduate Research Symposium. The Texas A&M University Health Science Center, College Station, TX. March 2002.
42. **E.L. Brown**, S. Gurusiddappa and M. Höök. Protection against *Borrelia burgdorferi* infections in mice immunized with peptides from the decorin-binding adhesin DBP. The American Association of Immunologists and Clinical Immunology Society Joint Annual Meeting, Seattle, WA. May 2000.
43. B.P. Guo, **E.L. Brown**, D.W. Dorward, L.C. Rosenberg and M. Höök. Decorin binding proteins from *Borrelia burgdorferi*. The Texas Branch of The American Society for Microbiology Fall Meeting, College Station, TX. November 1998.
44. **E.L. Brown**, S.J. Norris and M.L. Kripke. The effect of UVB radiation on immune responses and disease development in mice infected with *Borrelia burgdorferi*. XII Annual Texas Immunology Conference, Oklahoma City, OK. November 1994.
45. **E.L. Brown** and M.L. Kripke. The effect of UVB radiation on antibody and delayed type hypersensitivity responses to *Borrelia burgdorferi*. A role for IL-10 and IL-4 in UV-

induced immune suppression. XI Annual Texas Immunology Conference, Galveston, TX. November 1993.

46. **E.L. Brown** and M.L. Kripke. The effects of UV radiation on delayed type hypersensitivity and antibody production in C3H mice immunized with various doses of *Borrelia burgdorferi*. Joint Meeting of the American Association of Immunologists and the Clinical Immunology Society, Denver, CO. May 1993.\
47. **E.L. Brown** and M.L. Kripke. Comparison between antibody and DTH in C3H mice immunized with various doses of *Borrelia burgdorferi*. The University of Texas M. D. Anderson Cancer Center 1992 Basic Science Symposium: Immunobiology of Cancer: Cellular and Molecular Mechanisms, Houston, TX. October 1992.
48. **E.L. Brown** and M.L. Kripke. The effect of high and low dose UV-B irradiation on infection with *Schistosoma mansoni*. IX Texas Immunology Conference, Galveston, TX. November 1991.
49. **E.L. Brown** and W.M. Kemp. The role of ecdysteroids in concomitant immunity to *Schistosoma mansoni*. Fifteenth Annual Fancy Gap Immunoparasitology Workshop, Wake Forest, Winston-Salem, NC. October 1988.

FUNDING SOURCES-CURRENT SUPPORT:

- | | |
|-----------------|--|
| 7/2023 - 6/26 | NIH/NIAID (PI Depavia)
Multi-method investigation and characterization of the ocular microbiome
\$696,806/year
0.6 CM |
| 8/2019 - 7/2025 | Texas Department of Health and Human Services (PI Brown)
Chagas Disease and Dengue Virus Screening at the Texas-Mexico Border (Starr County, TX)
\$300,000/year
1.2 CM |

FUNDING SOURCES-COMPLETED SUPPORT:

- | | |
|-----------------------------|--|
| 2/2019-9/2024 | NIH/NIDDK R01 (PI Jun)
Diabetes Progression with Metabolomic and Genomic Profiling in Starr County Mexican Americans
\$2,810,000 |
| 1.20 CM NIH 9/2017 - 8/2023 | NIH/NIDDK R01 (Multi PI Brown/Hanis)
Microbiome and Worsening Glycemia Among Mexican Americans in Starr County, Texas
\$3,117,628
1.8 CM |
| 09/2018-08/2020 | CDC (PI Rios)
Emergency and Everyday Use of Elastomeric Respirators in Healthcare |

	\$340,087 0.6 CM
08/2018-08/2021	CPRIT (PI Schick) Liver Cancer Prevention among those with Experiences of Homelessness \$463,024 0.6 CM
9/2010 - 8/2018	Salix Pharmaceuticals Characterization of the Mechanism of Action for the Antibiotic Rifaximin on Epithelial Cell Monolayer Permeability Role / Status: PI/Funded \$97,000
9/2010-8/2016	NIH/NIAID R01 (Multi PI Brown/Hanis) Genome-Wide Association of Staphylococcal Carriage \$2,467,194.00
8/2010 - 7/2012	Kleberg Foundation (PI Brown) Analysis of Genes Associated with <i>S. aureus</i> Carriage and Susceptibility to Juvenile Arthritis \$125,600
8/2009 - 7/2012	NIH/NIAID R21 (PI Brown) Catalytic Antibodies to <i>Staphylococcus aureus</i>: Identification and Characterization \$412,000
8/2009 - 7/2011	Kleberg Foundation (PI Brown) Genome-Wide Association Study of <i>S. aureus</i> Carriage in a Mexican-American Population in Starr County, TX Role / Status: PI/Funded \$220,000
7/2007 - 4/2010	NIH/NIDDK R21 (PI Brown) <i>H. pylori</i> Infection in Hispanic Children: Immune Response Pathway SNP Patterns \$357,221
9/2005 - 9/2007	The University of Texas School of Public Health PRIME Award Polymicrobial <i>E. coli</i> Infections Result in Increased Pathogenesis \$50,000
3/2001 - 2/2004	CDC (PI Brown) Development of a Multi-component Subunit Vaccine Against the Lyme Spirochete <i>Borrelia burgdorferi</i> \$442,566

- 9/2001 - 9/2003 Fondren Foundation (PI Brown)
Development of a Multi-component Subunit Vaccine Against the Lyme Spirochete *Borrelia burgdorferi*
 \$50,000
- 2/1998 - 3/2001 CDC (PI Brown)
A Murine Model for Lyme Disease in Decorin Deficient Mice
 \$442,566

MENTORING EXPERIENCE:

1. Valery Harris (SPH). MPH Epidemiology. 2024-present. Academic Advisor.
2. Andrew Huynh (SPH). MPH Epidemiology. 2024-present. Academic Advisor.
3. Rania, Abdelkhaleq (SPH). PhD Epidemiology. 2024-present. Academic Advisor.
4. Odinakachukwu Dimgba (SPH). MPH Epidemiology. 2024-present. Academic Advisor.
5. Andrea Berdegue (SPH). MPH Epidemiology. 2024-present. Academic Advisor.
6. Katie Clark. (SPH). PhD Epidemiology. 2023-present. Academic/Thesis Advisor.
7. Morgan Jibowu (SPH). PhD Epidemiology. 2022-2024. Academic/Thesis Advisor. Graduated
8. Naveen Manisundar (SPH). MPH Epidemiology. 2022-present. Academic Advisor.
9. Batul Mamajiwala (SPH). MPH Epidemiology. 2022-2024. Academic Advisor. Graduated
10. Fangyu Li (SPH). PhD Epidemiology. 2022-2023. Academic Advisor. Graduated
11. Hari Reddy Indupuru (SPH). MPH Epidemiology. 2022-present. Academic Advisor.
12. Allison Lino (SPH). PhD Epidemiology. 2022-present. Academic Advisor.
13. Rami Ali (SPH). MPH Epidemiology. 2022-present. Academic Advisor.
14. Fernique Pinder (SPH). MPH Epidemiology. 2022-present. Academic Advisor.
15. Seun Sulaiman (SPH). MPH Epidemiology. 2022-present. Academic Advisor.
16. Zareen Aunwita (SPH). MPH Epidemiology. 2022-present. Academic Advisor.
17. Mia Chan (SPH). MPH Epidemiology. 2022-present. Academic Advisor.
18. Gerardo Mosqueda (SPH). MPH Epidemiology. 2022-present. Academic Advisor.
19. Madeline Wolken MPH Epidemiology. 2022-2023. Committee Member. Graduated
20. Anh Ly (SPH). PhD Epidemiology. 2020-2024. Academic Advisor. Graduated
21. Caitlin Cotter (SPH). PhD Epidemiology. 2020-2024. Academic/Thesis Advisor. Graduated.
22. Kayla Ruch (SPH). PhD Epidemiology. 2020-2024. Academic/Thesis Advisor. Graduated
23. Olivia Dominguez (SPH) PhD Epidemiology. 2020-present. Academic Advisor.
24. Katherine G. Bay (SPH) PhD Epidemiology. 2020-2021. Academic Advisor. Graduated
25. Zachary Becker (SPH) PhD Epidemiology. 2020-present. Academic Advisor.

26. Adrianna Maliga (SPH) PhD Epidemiology. 2020-present. Academic Advisor.
27. Sameera Taylor (SPH). MPH Epidemiology. 2020-present. Academic Advisor. Graduated
28. Fredrick Cramer (SPH). MPH Epidemiology. 2020-present. Academic Advisor. Graduated
29. Lauren Leining (SPH). PhD Epidemiology. 2019-present. Academic Advisor.
30. Marie Kasbaum (SPH). MPH Epidemiology. 2019-2020. Committee Member. Graduated
31. Katherine G. Bay (SPH) PhD Epidemiology. 2017-2022. Academic/Thesis. Graduated.
32. Themistoklis Kourkoumpetis (SPH). PhD Epidemiology. 2018-2019. Committee Member. Graduated
33. Kristin King (SPH). DrPH Environmental Health. 2018-2019 External Committee Member. Graduated.
34. Nutan Hebballi (SPH). PhD Epidemiology. 2018-2023. Academic Advisor. Graduated.
35. Sarah Smith (SPH). MPH Epidemiology. 2018-2020. Academic Advisor. Graduated
36. Namrata Shrestha (SPH). MPH Epidemiology. 2018-2020. Academic Advisor. Graduated
37. Lucy Potter (SPH). MPH Epidemiology. 2018-2020. Academic Advisor. Graduated
38. Jitesh Shewale (SPH). PhD Epidemiology. 2013-2018. Academic advisor. Graduated
39. Rodion Gorchakov (SPH). PhD Epidemiology. 2014-2018. Academic Advisor. Graduated
40. Brittney Naylor (SPH). PhD Epidemiology. 2017-2021. Academic Advisor. Graduated
41. Rachel White (SPH). PhD Epidemiology. 2017-2022. Academic Advisor. Graduated
42. Britany Graves (SPH). MPH Epidemiology. 2017-2019. Academic Advisor. Graduated
43. Heather T. Essigmann (SPH). PhD Epidemiology. 2017-2021. Academic/Thesis Advisor. Graduated
44. Rachel White (SPH). MPH Epidemiology. 2016-2017. Academic Advisor. Graduated
45. Jaaron Botello (SPH). MPH Epidemiology. 2016-2019. Academic Advisor. Changed programs.
46. Cristina Garcia (SPH). MPH Epidemiology. 2015-2017. Graduated
47. Vancheswaran Gopalakrishnan (SPH). PhD Epidemiology. 2015-2017. Academic Advisor. Graduated.
48. Robert Spenser (SPH). MPH Epidemiology. 2015-2017. Academic/Thesis Advisor. Graduated.
49. Timothy Erickson (SPH). PhD Epidemiology. 2015-2019. Academic Advisor. Graduated.
50. Tyler McCue (Baylor College of Medicine). PhD. 2014-2017. Committee Member. Left program.
51. Sarah Murphy (SPH). PhD Epidemiology. 2013-2016. Thesis Advisor. Graduated.
52. Apurva Ravindra Jain (SPH). MPH Epidemiology. 2013-2017. Academic Advisor. Graduated.
53. Parag Sudhir Mahale. PhD Epidemiology. 2012-2016. Academic Advisor. Graduated.

54. Heather R. Tooker-Blue (SPJ). PhD Epidemiology. 2012-2020. Academic Advisor. Graduated.
55. Yi-Ting Sheng (Serena) (SPH). MPH Epidemiology. 2013–2015. Academic Advisor. Graduated.
56. Heather T. Essigmann (SPH). MPH Epidemiology. 2013-2015. Academic/Thesis Advisor. Graduated.
57. Ruth Reitzel (SPH). PhD Epidemiology. 2012-2017. Academic Advisor. Graduated.
58. Spirodon Moraros (SPH) MPH Epidemiology. 2011-2013. Thesis Advisor. Graduated.
59. Sarah Jenkins (GSBS). PhD. Dissertation Committee. 2010-2013. Graduated.
60. Nina Shiang (SPH). PhD Epidemiology. 2010-2013. Thesis advisor. Graduated.
61. Cosmina Gingaras (SPH). PhD Epidemiology. 2012-2017. Academic Advisor. Left program.
62. Suvendra Vijayan (SPH). MPH Epidemiology. 2010-2012. Academic Advisor. Graduated.
63. Vinu Jyothi (SPH). MPH Epidemiology. 2011-2012. Academic Advisor. Graduated.
64. Nutan Heballi (SPH). MPH Epidemiology. 2011-2013. Academic Advisor. Graduated.
65. Jitesh Shewale (SPH). MPH Epidemiology. 2011-2013. Primary advisor. Graduated.
66. Oluwatosin Badejoko (SPH). MPH Epidemiology. 2011-2013. Academic Advisor. Graduated.
67. Syed Rizve (SPH). MPH Epidemiology. 2011-2013. Academic Advisor. Graduated.
68. Erin McHugh (SPH). MPH Epidemiology. 2010-2012. Practicum and Thesis Advisor. Graduated.
69. Saroochi Agarwal (SPH). PhD Epidemiology. 2010-2016. Academic Advisor. Graduated.
70. Parag Mahale (SPH). PhD Epidemiology. 2012-2016. Academic Advisor. Graduated.
71. Parag Mahale (SPH). MPH Epidemiology. 2010-2012. Academic Advisor. Graduated.
72. Leila Sahni (SPH). PhD Epidemiology. 2010-2018. Academic Advisor. Graduated.
73. Mahwish Mushtaq (SPH). MPH Epidemiology. 2010-2012. Academic Advisor. Graduated.
74. Navdeep Pal (SPH). MPH Epidemiology. 2010-2012. Academic Advisor. Graduated.
75. Lisa McManus (SPH). MPH Health Promotion. 2009-2011. Committee Member. Graduated.
76. Marape Marape (SPH). PhD Epidemiology. Academic advisor. Graduated.
77. Jenny Critell (SPH). MPH Epidemiology. 2010-2013. Academic Advisor. Graduated.
78. Poonam Deshmukh (SPH) MPH Epidemiology. 2010-2013. Academic Advisor. Graduated.
79. Marsha Feske (SPH). PhD Epidemiology. 2010-2011. Committee Member. Graduated.
80. Natalie A. Blum (SPH). MPH Epidemiology. 2010-2011. Academic Advisor. Graduated.
81. Anupam Pande (SPH). MPH Epidemiology. 2010-2011. Academic Advisor. Graduated.
82. Victoria Nakimbugwe (SPH). MPH Epidemiology. 2010. Academic Advisor. Graduated.

83. Caroline Schrodtt (SPH). MPH Epidemiology, 2010-2012 Thesis Advisor. Graduated.
84. Kirsten Rains (SPH). PhD Epidemiology. 2010-2012, Qualifying examination committee and dissertation committee member. Graduated.
85. Josh Calcote (SPH). PhD in Epidemiology. 2010-2012, Qualifying examination committee member. Graduated.
86. Rebecca Bryson (SPH). PhD in Epidemiology, 2010-2015, Academic/Thesis Advisor. Graduated.
87. Elizabeth Foster (SPH). MPH Epidemiology. 2007-2012. Academic Advisor. Graduated.
88. Andrea Bordt (GSBS). PhD Candidate, 2009-2012. Committee member.
89. Erin M. Koers (SPH). PhD in Epidemiology. 2006-2009, Committee Member. Graduated.
90. Christina Socias (SPH). MPH Epidemiology. 2008-2009, Committee Member. Graduated.
91. Jesse Dunkle (SPH). MPH Epidemiology, 2006-2009, Academic/Thesis Advisor. Graduated.
92. Joseph William (SPH). MPH Epidemiology, 2006-2009, Thesis Advisor. Graduated.
93. Heather C. Moore (SPH). MPH Epidemiology. 2007-2015. Thesis Advisor. Left program.
94. Rebecca S. Bryson (SPH). MPH Epidemiology, 2007-2009 Thesis Advisor. Graduated.
95. Dianne Wells (SPH). MPH Epidemiology, 2007-2011. Academic Advisor. Graduated.
96. Caroline Espinoza (SPH). MPH Epidemiology. 2007-2009. Committee Member. Graduated.
97. Darien Clary (SPH). MPH Epidemiology. 2007-2008, Academic/Thesis Advisor. Graduated.
98. Yamini Gupta (SPH). MPH Epidemiology. 2006-2008, Academic Advisor. Graduated May 2008.
99. Sumesh Kachroo (SPH). PhD in Epidemiology. 2006-2008. Committee Member. Graduated.
100. Cathryn Alice Cates (SPH). MPH. 2006-2008. Committee Member. Graduated.
101. Parvathy Nair (SPH). PhD in Epidemiology, 2005-2007, Academic advisor. Graduated.
102. Endira Jamecca Jones (SPH). MPH Epidemiology, 2006-2011, Committee member. Graduated.
103. Charles A. Monney (SPH). PhD Epidemiology. 2006-2008. Committee Member. Graduated.
104. Jeffrey Scott Patlovich (SPH). MPH Epidemiology. 2006-2008. Committee Member. Graduated.
105. Kirti Sopan Talole (SPH). MPH Epidemiology. 2006-2008. Committee Member. Graduated.
106. Christopher M. Walker (SPH). PhD Epidemiology. 2006-2010. Committee Member.

107. Heather E. Elfman (SPH). MPH Epidemiology. 2005-2006. Committee Member. Graduated.
108. Brooke Russell (Texas A&M-IBT). PhD candidate, 2005-2007, Committee Member. Project entitled 'Identification and Characterization of BSP10, a Putative Internalin from *Bacillus anthracis*'. Graduated.
109. Vanessa Vasquez (GSBS) PhD candidate, 2005-2006, Committee Member. Project entitled 'Interaction of the *Staphylococcus aureus* Panton Valentine Leukocidins with Host Cells'. Graduated.
110. Katherine F. Duncan (SPH). MPH Epidemiology, 2005-2007, Academic/Thesis. Thesis entitled 'Identification and Characterization of Catalytic Antibodies to the *S. aureus* Virulence Factor Efb'. Graduated.
111. Rodney Bowling (Texas A&M-IBT). PhD Candidate, 2004-2007, Committee Member. Doctoral thesis entitled 'T-Box Mediated Expression Through its 3'-Untranslated Region: A novel Cardiac Enhancer'. Graduated.
112. Robert Cabrera (Texas A&M-IBT). PhD Candidate, 2005-2006, Committee Member. Thesis entitled 'Mechanisms of Folic Acid in Neural Tube Defect Reduction'. Graduated.
113. Jenny Kim (Texas A&M-IBT). PhD Candidate, 2001-2006, Committee Member. Thesis entitled 'Identification and Characterization of the *Borrelia burgdorferi* fibronectin-binding Protein BBK32'. Graduated.
114. Lawrence Lee (GSBS). PhD candidate, 2001-2005, Thesis Advisor. Thesis entitled 'The Identification and Characterization of the *Staphylococcus aureus* Microbial Immunomodulatory Molecules (MIMs) Map and Efb'. Graduated.
115. Dat Nghiem (GSBS). PhD Candidate, 2005, Committee Member. Thesis entitled 'Mechanisms Involved in Suppression of the Elicitation of Immune Responses by Ultraviolet Light'. Graduated.
116. Jason Mitchell (GSBS). PhD Candidate, 2004, Committee Member. Thesis entitled 'T cell adhesion regulation from clustering GM1 lipid rafts'. Graduated.
117. Matthew Billard (GSBS). PhD Candidate, 2004, Committee Member. Graduated.
118. Dana Kurana (Texas A&M-IBT). PhD Candidate, 2000-2003, Committee Member.
119. Damon Choe (Texas A&M-IBT). PhD Candidate, 2000-2004, Committee Member. Graduated.
120. Trent Fowler (GSBS). PhD Candidate, 2000-2002, Committee Member. Thesis entitled 'Requirements for *Staphylococcus aureus* in vitro cellular internalization'. Graduated.