**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: 9/27/2025

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## ACADEMIC POSITIONS:

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

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|---|---|
| 2004-2005 | Discipline Scientist-Immunology<br>University of Houston<br>Wyle Laboratories Bioastronautics Team/NASA-JSC<br>Human Adaptation & Countermeasures<br>Houston, TX |
| 2001–2004 | Research Assistant Professor<br>Texas A&M University System Health Science Center<br>Institute of Biosciences and Technology<br>Center for Extracellular Matrix Biology<br>Houston, TX |
| 2000–2001 | Assistant Research Scientist<br>Texas A&M University System Health Science Center<br>Institute of Biosciences and Technology<br>Center for Extracellular Matrix Biology<br>Houston, TX |
| 1996-1999 | Postdoctoral Research Associate<br>Texas A&M University System Health Science Center<br>Institute of Biosciences and Technology<br>Center for Extracellular Matrix Biology<br>Houston, TX |

**EDUCATION:**

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|---|---|
| 1990-1996 | Graduate School of Biomedical Sciences<br>The University of Texas M.D. Anderson Cancer Center<br>Houston, TX.<br>PhD in Immunology under the supervision of Dr. Margaret L. Kripke<br>*Thesis: "The Effect of Ultraviolet Radiation on Borrelia burgdorferi Infections."* |
| 1985-1989 | Texas A&M University<br>College Station, TX<br>B.S. in Biology |

**RESEARCH INTERESTS:**

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

**TEACHING EXPERIENCE:**

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|---|---|
| 2006-present | Medical Microbiology, University of Texas School of Public Health<br>(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, *Infection and Immunity*

2011-present Biosafety Committee, University of Texas School of Public Health

2016-2020 Admissions Committee, Division of Epidemiology, Human Genetics, and Environmental Sciences

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|---|---|
| 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 36):
https://shorturl.at/b7oWM

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

1. Alisa Nelson, Michelle Downey, Maya Murray, Brianna Weber, Erik Aguirre, Richard Scott McCrea, Jerrod Mims, Max Vigilant, Courtney Standlee, Kristy O. Murray, Alex Kneubehl, **Eric L. Brown**, Heather T. Essigmann, and Sarah M. Gunter. Emerging tick-borne disease risk in an urban center of Harris County, Texas. *Vector Borne Zoonotic Dis*. **2025**. In Press.
2. M. Jibowu, M. Vigilant, A. Costa-da-Silva, A. Nelson, H.T. Essigmann, **E.L. Brown**, and S.M. Gunter. Spatial and seasonal dynamics of mosquito species in Harris County, Texas, highlight risk of arbovirus introduction and transmission. *Sci Reports*. **2025**. 25;15(1):10330. DOI:10.1038/s41598-025-92175-6. PMID: 40133319.
3. K.E. Ruch, A. Rodriguez, J. Rios, L. Ostrosky-Zeichner, and **E.L. Brown**. Development, delivery, and evaluation of the Texas Epidemic Public Health Institute pilot infection control lecture series. *Front. Public Health*. **2025**. Vol 13-2025. DOI: 10.3389/fpubh.2025.1534560. PMID: 40144998.

4. F. Cramer, L.M. Leining, T.A. Erickson, J. Blackburn, C.L. Hanis, **E.L. Brown**, and S.M. Gunter. The seroprevalence and risk factors for spotted fever group and typhus group Rickettsia along the Texas-Mexico border. *Am. J. Trop. Med. Hyg*. **2025**. DOI: 10.4269/ajtmh.24-0364.PMID: 39874595.
5. 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*. **2025**. DOI: 10.4269/ajtmh.24-0364. PMID: 39874595.
6. M. Jibowu, M.S. Nolan, R. Ramphul, H.T. Essigmann, A.O. Oluyomi, **E.L. Brown**, M. Vigilant, and S.M. Gunter. Spatial dynamics of *Culex quinquefasciatus* abundance: geostatistical insights form Harris County, Texas. *Int. J. Health Geogr*. **2024**. https://doi.org/10.1186/s12942-024-00385-4. PMID: 39639303.
7. K. Ruch, A. Rodriguez, L. Ostrosky-Zeichner, and **E.L. Brown**. Evaluation of Certification Board of Infection Control and Epidemiology, Inc. Certification in Infection Control (CIC) examination rates. *Am. J. Infect. Control*. **2024**. 28:S0196-6553(24)00860-5. DOI: 10.1016/j.ajic.2024.11.020 PMID: 39615598.
8. M.M. Duffey, E. O'Connell, M. Jibowu, F.E. Moron, L.M. Leining, N.L. Tang, C.L. Hanis, **E.L. Brown**, and S.M. Gunter. Seroprevalence and risk factors for cysticercosis in Mexican-Americans in Starr County, TX. *Pathogens*. **2024**. *Pathogens*. 13, 988. DOI: 10.3390/pathogens13110988. PMID: 39599541.
9. 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. Accelerated 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
10. 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.
11. F. Li, Y. Yano, L. Étiévant, 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.
12. 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
13. **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.

14. 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.

15. 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.

16. 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.

17. **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.

18. 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.

19. 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.

20. 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

21. 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.

22. 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

23. 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

24. 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.

25. 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.

26. 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**.**

27. 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.

28. 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.

29. 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.

30. C. Darkoh, K. Keita, C. Odo, M. Oyaro, **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.

31. 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.

32. 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:10.1089/mab.2021.0047.

33. 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.

34. **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.

35. 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.

36. 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.

37. **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.

38. 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.

39. 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.

40. 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

41. 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.

42. M.S. Nolan, D. Agular, **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.

43. 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.

44. 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 *Trypanososma cruzi* in Texas. *J. Wildlife Dis*. **2018**. 54(4):814-818. doi:10.7589/2017-09-223. PMID: 29889005.

45. 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*. *MBi*o. **2018**. Jan-Feb; 9(1): e02016-17. PMID: 29295910.

46. 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.

47. 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.

48. 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.

49. 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.

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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. Elmets, Eds., Blackwell Science, Cambridge, MA **1995**, p.153.
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**PATENTS AND DISCLOSURES:**

**Brown** *et al*. International PCT Application PCT/USO2/00401 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"

**Brown** *et al*. US Patent No US-20070053925-A1. March 8, 2007
Title: STAPHYYLOCOCCUS AURES EFB PROTEIN AND C3 BINDING REGION WHICH INHIBIT COMPLEMENT ACTIVATION

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Title: "MULTICOMPONENT MSCRAMM LYME DISEASE VACCINE"

**Brown** *et al*. International PCT Application PCT/US2008/005221. Document Identifier US 20100183614 A1
Title: "IMMUNOGLOBULINS DIRECTED TO BACTERIA, VIRAL AND ENDOGENOUS POLYPEPTIDES

**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. Plasma proteomics using Mag-Net and Proteograph XT enrichment enables multi-faceted biomarker discovery with complementary protein and peptide coverage. B.L. Tsu, S.N. Kairs, S. Kim, G. Jun, C.L. Hanis, **E.L. Brown**, C.C. Wu, M.J. MacCoss, and C.A. Barnes. American Society for Microbiology. Oct 16 – 19. Baltimore, MD. **2025**.
2. Neglected tropical diseases surveillance in a population of Mexican Americans in Sarr County, Texas. M. Duffey, S. Pulluri, M. Murry, L. Leining, E. O'Connell, N. Tang, C.L. Hanis, **E.L. Brown**, and S.M. Gunter. Annual James Steele Conference on Diseases in Nature Transmissible to Humans. May 19 – 23. San Antonio, TX. **2025**.
3. Investigating the ocular surface microbiome using a culturomics approach. C.E. Bason, T.S. Robinson, A.C. Macedo, J.O. Cantu, S.G. Venables, K.E. Szenkiel, A.B. Arana, **E.L. Brown**, K.L. Hoffman, S.C. Pflugfelder, C.S. de Pavia, R.A. Britton, and L. Schaefer. The Association for Research in Vision and Ophthalmology (ARVO). May 4-8. Salt Lake, UT, **2025**.
4. 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**.
5. 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**.
6. Seroprevalence and risk factors for neurocyticercocis 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**.
7. 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**.
8. 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.**
9. 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**.
10. 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**.
11. 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**.

12. 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. Balckburn, 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**.

13. 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**.**

14. 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.

15. 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.

16. 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.

17. 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.

18. 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**.

19. 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**.

20. 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**.

21. 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**.

22. 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**.

23. 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**.

24. **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.**

25. 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**.

26. 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 **201**4.

27. 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 **201**4.

28. 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**.

29. 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**.

30. 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 II Ciocco Resort, Tuscany, Italy. June 17-22, **2012**.

31. 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**.

32. 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**.

33. 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**.

34. 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.**

35. 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**.

36. 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 Diablerts, Switzerland. September 2-6, **2007**.

37. **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**.\

38. 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**.

39. 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**.

40. **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**.

41. 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**.

42. **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**.

43. 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**.

44. 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**.

45. **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**.

46. 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**.

47. **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**.

48. **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**.

49. **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**.\

50. **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**.

51. **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**.

52. **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 Homelesness**
$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 *S. aureus* Carriage and Susceptibility to Juvenile Arthritis**
$125,600

8/2009 – 7/2012 NIH/NIAID R21 (PI Brown)
**Catalytic Antibodies to *Staphylococcus aureus*: Identification and Characterization**
$412,000

8/2009 – 7/2011 Kleberg Foundation (PI Brown)
**Genome-Wide Association Study of *S. aureus* 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)<br>***H. pylori* Infection in Hispanic Children: Immune Response Pathway SNP Patterns**<br>$357,221 |
| 9/2005 – 9/2007 | The University of Texas School of Public Health<br>PRIME Award<br>**Polymicrobial *E. coli* Infections Result in Increased Pathogenesis**<br>$50,000 |
| 3/2001 – 2/2004 | CDC (PI Brown)<br>**Development of a Multi-component Subunit Vaccine Against the Lyme Spirochete *Borrelia burgdorferi***<br>$442,566 |
| 9/2001 – 9/2003 | Fondren Foundation (PI Brown)<br>**Development of a Multi-component Subunit Vaccine Against the Lyme Spirochete *Borrelia burgdorferi***<br>$50,000 |
| 2/1998 – 3/2001 | CDC (PI Brown)<br>**A Murine Model for Lyme Disease in Decorin Deficient Mice**<br>$442,566 |

**MENTORING EXPERIENCE:**

1. Valery Harris (SPH). MPH Epidemiology. 2024-2025. Academic Advisor. Graduated.
2. Andrew Huynh (SPH). MPH Epidemiology. 2024-2025. Academic Advisor. Graduated.
3. Rania, Abdelkhaleq (SPH). PhD Epidemiology. 2024-present. Academic Advisor.
4. Angie Bianca Benedetto (SPH). PhD Epidemiology. 2024-present. Academic Advisor.
5. Janica Gala (SPH). PhD Epidemiology. 2024-present. Academic Advisor
6. Odinakachukwu Dimgba (SPH). MPH Epidemiology. 2024-present. Academic Advisor.
7. Angela Zieba (SPH). MPH Epidemiology. 2024-present. Academic Advisor.
8. Sanjana Tabassum (SPH). MPH Epidemiology. 2024-present. Academic Advisor.
9. Carlie Stratemann (SPH). MPH Epidemiology. 2024-present. Academic Advisor.
10. Andrea Berdegue (SPH). MPH Epidemiology. 2024-present. Academic Advisor. Graduated.
11. Katie Clark. (SPH). PhD Epidemiology. 2023-present. Academic/Thesis Advisor.
12. Morgan Jibowu (SPH). PhD Epidemiology. 2022-2024. Academic/Thesis Advisor. Graduated.
13. Naveen Manisundar (SPH). MPH Epidemiology. 2022-2024. Academic Advisor. Graduated.

14. Batul Mamajiwala (SPH). MPH Epidemiology. 2022-2024. Academic Advisor. Graduated.
15. Fangyu Li (SPH). PhD Epidemiology. 2022-2023. Academic Advisor. Graduated
16. Hari Reddy Indupuru (SPH). MPH Epidemiology. 2022-2024. Academic Advisor. Graduated.
17. Brian J. Reiber (SPH). MPH Epidemiology. 2022-2024. Academic Advisor. Graduated.
18. Allison Lino (SPH). PhD Epidemiology. 2022-present. Academic Advisor.
19. Rami Ali (SPH). MPH Epidemiology. 2022-present. Academic Advisor.
20. Fernique Pinder (SPH). MPH Epidemiology. 2022-2025. Academic Advisor. Graduated.
21. Seun Sulaiman (SPH). MPH Epidemiology. 2022-2024. Academic Advisor. Graduated.
22. Zareen Aunwita (SPH). MPH Epidemiology. 2022-2024. Academic Advisor. Graduated.
23. Mia Chan (SPH). MPH Epidemiology. 2022-2025. Academic Advisor. Graduated.
24. Gerardo Mosqueda (SPH). MPH Epidemiology. 2022-2025. Academic Advisor. Graduated.
25. Madeline Wolken MPH Epidemiology. 2022-2023. Committee Member. Graduated
26. Anh Ly (SPH). PhD Epidemiology. 2020-2024. Academic Advisor. Graduated
27. Caitlin Cotter (SPH). PhD Epidemiology. 2020-2024. Academic/Thesis Advisor. Graduated.
28. Kayla Ruch (SPH). PhD Epidemiology. 2021-2024. Academic/Thesis Advisor. Graduated
29. Olivia Dominguez (SPH) PhD Epidemiology. 2020-present. Academic Advisor.
30. Katherine G. Bay (SPH) PhD Epidemiology. 2020-2021. Academic Advisor. Graduated
31. Zachary Becker (SPH) PhD Epidemiology. 2020-present. Academic Advisor.
32. Adrianna Maliga (SPH) PhD Epidemiology. 2020-present. Academic Advisor.
33. Sameera Taylor (SPH). MPH Epidemiology. 2020-present. Academic Advisor. Graduated
34. Fredrick Cramer (SPH). MPH Epidemiology. 2020-present. Academic Advisor. Graduated
35. Lauren Leining (SPH). PhD Epidemiology. 2019-present. Academic Advisor.
36. Marie Kasbaum (SPH). MPH Epidemiology. 2019-2020. Committee Member. Graduated
37. Katherine G. Bay (SPH) PhD Epidemiology. 2017-2022. Academic/Thesis. Graduated.
38. Themistoklis Kourkoumpetis (SPH). PhD Epidemiology. 2018-2019. Committee Member. Graduated
39. Kristin King (SPH). DrPH Environmental Health. 2018-2019 External Committee Member. Graduated.
40. Nutan Hebballi (SPH). PhD Epidemiology. 2018-2023. Academic Advisor. Graduated.
41. Sarah Smith (SPH). MPH Epidemiology. 2018-2020. Academic Advisor. Graduated
42. Namrata Shrestha (SPH). MPH Epidemiology. 2018-2020. Academic Advisor. Graduated
43. Lucy Potter (SPH). MPH Epidemiology. 2018-2020. Academic Advisor. Graduated

44. Jitesh Shewale (SPH). PhD Epidemiology. 2013-2018. Academic advisor. Graduated
45. Rodion Gorchakov (SPH). PhD Epidemiology. 2014-2018. Academic Advisor. Graduated
46. Brittney Naylor (SPH). PhD Epidemiology. 2017-2021. Academic Advisor. Graduated
47. Rachel White (SPH). PhD Epidemiology. 2017-2022. Academic Advisor. Graduated
48. Britany Graves (SPH). MPH Epidemiology. 2017-2019. Academic Advisor. Graduated
49. Heather T. Essigmann (SPH). PhD Epidemiology. 2017-2021. Academic/Thesis Advisor. Graduated
50. Rachel White (SPH). MPH Epidemiology. 2016-2017. Academic Advisor. Graduated
51. Jaaron Botello (SPH). MPH Epidemiology. 2016-2019. Academic Advisor. Changed programs.
52. Cristina Garcia (SPH). MPH Epidemiology. 2015-2017. Graduated
53. Vancheswaran Gopalakrishnan (SPH). PhD Epidemiology. 2015-2017. Academic Advisor. Graduated.
54. Robert Spenser (SPH). MPH Epidemiology. 2015-2017. Academic/Thesis Advisor. Graduated.
55. Timothy Erickson (SPH). PhD Epidemiology. 2015-2019. Academic Advisor. Graduated.
56. Tyler McCue (Baylor College of Medicine). PhD. 2014-2017. Committee Member. Left program.
57. Sarah Murphy (SPH). PhD Epidemiology. 2013-2016. Thesis Advisor. Graduated.
58. Apurva Ravindra Jain (SPH). MPH Epidemiology. 2013-2017. Academic Advisor. Graduated.
59. Parag Sudhir Mahale. PhD Epidemiology. 2012-2016. Academic Advisor. Graduated.
60. Heather R. Tooker-Blue (SPJ). PhD Epidemiology. 2012-2020. Academic Advisor. Graduated.
61. Yi-Ting Sheng (Serena) (SPH). MPH Epidemiology. 2013—2015. Academic Advisor. Graduated.
62. Heather T. Essigmann (SPH). MPH Epidemiology. 2013-2015. Academic/Thesis Advisor. Graduated.
63. Ruth Reitzel (SPH). PhD Epidemiology. 2012-2017. Academic Advisor. Graduated.
64. Spirodon Moraros (SPH) MPH Epidemiology. 2011-2013. Thesis Advisor. Graduated.
65. Sarah Jenkins (GSBS). PhD. Dissertation Committee. 2010-2013. Graduated.
66. Nina Shiang (SPH). PhD Epidemiology. 2010-2013. Thesis advisor. Graduated.
67. Cosmina Gingaras (SPH). PhD Epidemiology. 2012-2017. Academic Advisor. Left program.
68. Suvendra Vijayan (SPH). MPH Epidemiology. 2010-2012. Academic Advisor. Graduated.
69. Vinu Jyothi (SPH). MPH Epidemiology. 2011-2012. Academic Advisor. Graduated.
70. Nutan Heballi (SPH). MPH Epidemiology. 2011-2013. Academic Advisor. Graduated.

71. Jitesh Shewale (SPH). MPH Epidemiology. 2011-2013. Primary advisor. Graduated.
72. Oluwatosin Badejoko (SPH). MPH Epidemiology. 2011-2013. Academic Advisor. Graduated.
73. Syed Rizve (SPH). MPH Epidemiology. 2011-2013. Academic Advisor. Graduated.
74. Erin McHugh (SPH). MPH Epidemiology. 2010-2012. Practicum and Thesis Advisor. Graduated.
75. Saroochi Agarwal (SPH). PhD Epidemiology. 2010-2016. Academic Advisor. Graduated.
76. Parag Mahale (SPH). PhD Epidemiology. 2012-2016. Academic Advisor. Graduated.
77. Parag Mahale (SPH). MPH Epidemiology. 2010-2012. Academic Advisor. Graduated.
78. Leila Sahni (SPH). PhD Epidemiology. 2010-2018. Academic Advisor. Graduated.
79. Mahwish Mushtaq (SPH). MPH Epidemiology. 2010-2012. Academic Advisor. Graduated.
80. Navdeep Pal (SPH). MPH Epidemiology. 2010-2012. Academic Advisor. Graduated.
81. Lisa McManus (SPH). MPH Health Promotion. 2009-2011. Committee Member. Graduated.
82. Marape Marape (SPH). PhD Epidemiology. Academic advisor. Graduated.
83. Jenny Critell (SPH). MPH Epidemiology. 2010-2013. Academic Advisor. Graduated.
84. Poonam Deshmukh (SPH) MPH Epidemiology. 2010-2013. Academic Advisor. Graduated.
85. Marsha Feske (SPH). PhD Epidemiology. 2010-2011. Committee Member. Graduated.
86. Natalie A. Blum (SPH). MPH Epidemiology. 2010-2011. Academic Advisor. Graduated.
87. Anupam Pande (SPH). MPH Epidemiology. 2010-2011. Academic Advisor. Graduated.
88. Victoria Nakimbugwe (SPH). MPH Epidemiology. 2010. Academic Advisor. Graduated.
89. Caroline Schrodt (SPH). MPH Epidemiology, 2010-2012 Thesis Advisor. Graduated.
90. Kirsten Rains (SPH). PhD Epidemiology. 2010-2012, Qualifying examination committee and dissertation committee member. Graduated.
91. Josh Calcote (SPH). PhD in Epidemiology. 2010-2012, Qualifying examination committee member. Graduated.
92. Rebecca Bryson (SPH). PhD in Epidemiology, 2010-2015, Academic/Thesis Advisor. Graduated.
93. Elizabeth Foster (SPH). MPH Epidemiology. 2007-2012. Academic Advisor. Graduated.
94. Andrea Bordt (GSBS). PhD Candidate, 2009-2012. Committee member.
95. Erin M. Koers (SPH). PhD in Epidemiology. 2006-2009, Committee Member. Graduated.
96. Christina Socias (SPH). MPH Epidemiology. 2008-2009, Committee Member. Graduated.
97. Jesse Dunkle (SPH). MPH Epidemiology, 2006-2009, Academic/Thesis Advisor. Graduated.
98. Joseph William (SPH). MPH Epidemiology, 2006-2009, Thesis Advisor. Graduated.
99. Heather C. Moore (SPH). MPH Epidemiology. 2007-2015. Thesis Advisor. Left program.

100. Rebecca S. Bryson (SPH). MPH Epidemiology, 2007-2009 Thesis Advisor. Graduated.

101. Dianne Wells (SPH). MPH Epidemiology, 2007-2011. Academic Advisor. Graduated.

102. Caroline Espinoza (SPH). MPH Epidemiology. 2007-2009. Committee Member. Graduated.

103. Darien Clary (SPH). MPH Epidemiology. 2007-2008, Academic/Thesis Advisor. Graduated.

104. Yamini Gupta (SPH). MPH Epidemiology. 2006-2008, Academic Advisor. Graduated May 2008.

105. Sumesh Kachroo (SPH). PhD in Epidemiology. 2006-2008. Committee Member. Graduated.

106. Cathryn Alice Cates (SPH). MPH. 2006-2008. Committee Member. Graduated.

107. Parvathy Nair (SPH). PhD in Epidemiology, 2005-2007, Academic advisor. Graduated.

108. Endira Jamecca Jones (SPH). MPH Epidemiology, 2006-2011, Committee member. Graduated.

109. Charles A. Monney (SPH). PhD Epidemiology. 2006-2008. Committee Member. Graduated.

110. Jeffrey Scott Patlovich (SPH). MPH Epidemiology. 2006-2008. Committee Member. Graduated.

111. Kirti Sopan Talole (SPH). MPH Epidemiology. 2006-2008. Committee Member. Graduated.

112. Christopher M. Walker (SPH). PhD Epidemiology. 2006-2010. Committee Member.

113. Heather E. Elfman (SPH). MPH Epidemiology. 2005-2006. Committee Member. Graduated.

114. 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.

115. Vanessa Vasquez (GSBS) PhD candidate, 2005-2006, Committee Member. Project entitled 'Interaction of the *Staphylococcus aureus* Panton Valentine Leukocidins with Host Cells'. Graduated.

116. 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.

117. 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.

118. Robert Cabrera (Texas A&M-IBT). PhD Candidate, 2005-2006, Committee Member. Thesis entitled 'Mechanisms of Folic Acid in Neural Tube Defect Reduction'. Graduated.

119. 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.

120. 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.

121. Dat Nghiem (GSBS). PhD Candidate, 2005, Committee Member. Thesis entitled 'Mechanisms Involved in Suppression of the Elicitation of Immune Responses by Ultraviolet Light'. Graduated.

122. Jason Mitchell (GSBS). PhD Candidate, 2004, Committee Member. Thesis entitled 'T cell adhesion regulation from clustering GM1 lipid rafts'. Graduated.

123. Matthew Billard (GSBS). PhD Candidate, 2004, Committee Member. Graduated.

124. Dana Kurana (Texas A&M-IBT). PhD Candidate, 2000-2003, Committee Member.

125. Damon Choe (Texas A&M-IBT). PhD Candidate, 2000-2004, Committee Member. Graduated.

126. Trent Fowler (GSBS). PhD Candidate, 2000-2002, Committee Member. Thesis entitled 'Requirements for *Staphylococcus aureus* in vitro cellular internalization'. Graduated.