

Curriculum Vitae
Cavan Reilly, Ph.D.

September 1, 2023

Address

University of Minnesota
School of Public Health
Division of Biostatistics
2221 University Ave SE, Ste 200
Minneapolis, MN 55414-3075
email: cavanr@biostat.umn.edu

Education

Ph.D. Columbia University, 2000, Statistics
M.A. New School for Social Research, 1995, Economics
B.S. University of Minnesota, 1993, Sociology

Experience

2017–present: Professor, Biostatistics, University of Minnesota
2021–present: Director of the Coordinating Centers for Biometric Research
2016–2021: Associate Director of the Coordinating Centers for Biometric Research
2007–2017: Associate Professor, Biostatistics, University of Minnesota
2000–2007: Assistant Professor, Biostatistics, University of Minnesota
2001–2007: Member of graduate faculty in Bioinformatics, University of Minnesota
1997–2000: Preceptor, Statistics, Columbia University

Honors and Awards

2019 NIAID Merit Award
2018 Biostatistician Mentor of the Year (University of Minnesota Clinical and Translational Science Institute)
2017 Fellow of the American Statistical Association
2000 Award for exemplary application for Grant in aid of artistry and research, University of Minnesota
2000 John van Ryzin memorial Award for outstanding dissertation in Statistics and Biostatistics

Publications in peer-reviewed journals

1. Reilly C, Gelman A, Katz J (2001), “Post-stratification without population level information on the post-stratifying variable, with application to political polling”, *Journal of American Statistical Association*, 96, 1–12.
2. Schacker TW, Nguyen P, Beilman G, Wolinsky S, Larson M, Reilly C, Haase AT (2002) “The impact of inflammation and fibrosis in the T cell zone niche of secondary lymphatic tissues on immune reconstitution during HIV-1 infection”, *Journal of Clinical Investigation*, 110, 1133–1139.
3. Schacker TW, Nguyen P, Martinez E, Reilly C, Gatell JM, Horban A, Bakawska E, Berzins B, van Leeuwen R, Wolinsky S, Haase AT, Murphy RL (2002), “Persistent abnormalities in lymphoid tissues of HIV-infected persons on highly active anti-retroviral therapy”, *Journal of Infectious Diseases*, 186, 1092–1097.

4. Reilly C, Haase AT, Schacker TW, Krason D, Wietgreffe S (2002), "The clustering of infected SIV cells in lymphoid tissue", *Journal of American Statistical Association*, 97, 943–954.
5. Raghavan A, Ogilvie R, Reilly C, Abelson M, Robison R, Raghavan S, Vasdewani J, Krathwohl M, Bohjanen P (2002), "Global analysis of mRNA decay in T cells", *Nucleic Acids Research*, 30, 5529–5538.
6. Reilly C, Wang C, Rutherford M (2003), "Normalization of microarrays using the transcripts that are not differentially expressed", *The Journal of the American Statistical Association*, 98, 868–878.
7. Zhang Z, Wietgreffe S, Li Q, Shore M, Lljie D, Reilly C, Lifson J, Haase AT (2004), "The roles of target cell availability, susceptibility and productive infection of resting and activated CD4+ T cells in transmission and acute SIV infection", *Proceedings of the National Academy of the Sciences*, 101, 5640–5645.
8. Reilly C, Wang C, Rutherford M (2005), "A method for the comparison of cluster analyses", *Statistica Sinica*, 15, 19–34.
9. Reilly C, Price P, Gelman A, Sandgrathe S (2005), "Using image and curve registration for measuring the goodness of fit of spatial and temporal predictions", *Biometrics*, 60, 954–964.
10. Reilly C (2005), "Non-parametric longitudinal analysis via a set of survival problems with application to the analysis of microarrays", *Biostatistics*, 6, 271–278.
11. Li Q, Duan L, Estes J, Ma Z-M, Rourke T, Wang Y, Reilly C, Carlis J, Miller C, Haase AT (2005), "Peak SIV replication in resting memory CD4+ T cells depletes gut lamina propria CD4+ T cells", *Nature*, 435.
12. Vlasova I, McNabb J, Raghavan A, Reilly C, Williams D, Bohjanen P (2005), "Coordinate stabilization of growth-regulatory transcripts in T cell malignancies", *Genomics*, 86, 159–171.
13. Li Q, Lifson J, Schacker TW, Estes J, Duan L, Reilly C, Carlis J, Liaw L, Haase AT (2005), "Potential roles for follicular dendritic cell associated osteopontin in lymphoid follicles and B cell regulation in HIV-1 and SIV infections", *Journal of Infectious Disease*, 197, 1269–1276.
14. Schacker TW, Reilly C, Beilman G, Taylor J, Skarda D, Krason D, Larson M, Haase AT (2005), "Amount of lymphatic tissue fibrosis in HIV infection predicts magnitude of HAART associated change in peripheral CD4 cell count", *AIDS*, 19, 2169–2171.
15. Chen R, Yokoyama M, Sato H, Reilly C, Mansky L (2005), "HIV mutagenesis during antiretroviral therapy: Impact of drug resistant reverse transcriptase and nucleoside and nonnucleoside reverse transcriptase inhibitors on HIV-1 mutation frequencies", *Journal of Virology*, 79, 12045–12057.
16. Smith J, Schmechel S, Raghavan A, Abelson M, Reilly C, Katze M, Kaufman R, Bohjanen P, Schiff L (2006), "Reovirus induces and benefits from an integrated cellular stress response", *Journal of Virology*, 80, 2019–2033.
17. Estes J, Li Q, Reynolds MR, Wietgreffe S, Duan L, Shacker T, Picker L, Watkins D, Lifson J, Reilly C, Carlis J, Haase AT (2006), "Premature induction of an immunosuppressive regulatory T cell response during acute SIV infection", *Journal of Infectious Disease*, 193, 703–712.
18. Nordgaard CL, Berg KM, Kapphahn RJ, Reilly C, Feng X, Olsen TW, Ferrington DA (2006), "Proteomics of the retinal pigment epithelium reveals altered protein expression at progressive stages of age-related macular degeneration", *Investigative Ophthalmology and Visual Science*, 47, 815–822.

19. Hataye J, Moon JJ, Khoruts A, Reilly C, Jenkins M (2006), "Naive and memory CD4+ T cell survival controlled by clonal abundance", *Science*, 312, 114–116.
20. Schacker, TW, Brenchley JM, Beilman GJ, Reilly C, Nguyen PL, Taylor J, Skarda D, Larson M, Douek DC, Haase AT (2006), "Lymphatic tissue fibrosis contributes to reduced numbers of naive CD4+ T cells in HIV-1 infection", *Clinical and Vaccine Immunology*, 13, 5:556–560.
21. Lore K, Seggewiss R, Guenaga FJ, Pittaluga S, Donahue RE, Krouse A, Metzger ME, Koup RA, Reilly C, Douek DC, Dunbar CE (2006), "In vitro culture during retroviral transduction improves thymic repopulation and output after TBI and autologous PBPC transplantation in rhesus macaques", *Stem Cells*, 24, 1539–1548.
22. Reilly C, Raghavan A, Bohjanen P (2006), "Global assessment of cross-hybridization for oligonucleotide arrays", *Journal of Microbiological Techniques*, 17, 163–172.
23. Ethan C, Reilly C, Feng X, Olsen TW, Ferrington DA (2006), "The proteome of central and peripheral retina with progression of age-related macular degeneration", *Investigative Ophthalmology and Visual Science*, 47, 2280–2209.
24. Lu H, Reilly C, Banerjee S, Carlin BP (2006), "Bayesian areal wombling via adjacency modeling", *Environmental and Ecological Statistics*, 14, 433–452.
25. Skinner P, Abbassi H, Cheseboro B, Race R, Reilly C, Haase AT (2006), "Comparison of gene expression alterations in the brains of mice infected with three different strains of Scrapie", *BMC Genomics*, 7, 114.
26. Hau H, Walsh R, Ogilvie R, Williams D, Reilly C, Bohjanen P (2006), "Tristetraprolin recruits functional mRNA decay complexes to ARE sequences", *Journal of Cellular Biochemistry*, 100(6); 1477–1492.
27. Larsson O, Perlman DM, Fan D, Reilly C, Peterson M, Dahlgren C, Liang Z, Li S, Polunovsky VA, Wahlestedt C, Bitterman P (2006), "Apoptosis resistance downstream of eIF4E: posttranscriptional activation of an anti-apoptotic transcript carrying a consensus hairpin structure", *Nucleic Acids Research*, 34, 4375–4386.
28. Reilly C, Zhang Q, Wietgreffe S, Haase AT (2006), "Estimation of relative viral production of activated and non-activated CD4+ T cells", *AIDS*, 21(2): 163–168.
29. Estes JD, Wietgreffe S, Schacker TW, Southern P, Beilman G, Reilly C, Milush JM, Lifson JD, Sodora DL, Carlis JV, Haase AT (2007), "Simian immunodeficiency virus-induced lymphatic tissue fibrosis is mediated by transforming growth factor Beta-1 positive regulatory T cells and begins in early infection", *Journal of Infectious Diseases*, 195(4): 551–561.
30. Reilly C, Gelman A (2007), "Weighted variogram estimation for data with clustering", *Technometrics*, 49(2), 184–194.
31. Reilly C, Miller MB, Liu Y, Oetting WS, King R, Blumenthal M (2007), "Linkage analysis of a cluster-based quantitative phenotype constructed from pulmonary function test data in 27 multigenerational families with multiple asthmatic members", *Human Heredity*, 64(2), 136–145.
32. Ethen C, Hussong SA, Reilly C, Feng X, Olsen TW, Ferrington DA (2007), "Transformation of the proteasome with age-related macular degeneration", *FEBS Letters*, 581, 885–890.
33. Ethan C, Reilly C, Feng X, Olsen TW, Ferrington DA (2007), "Age-related macular degeneration and retinal protein modification by 4-hydroxy-2-nonenal", *Investigative Ophthalmology and Visual Science*, 48, 3469–3479.

34. Li Q, Estes JD, Duan L, Jessurun J, Pambuccian S, Forster C, Wietgreffe S, Zupancic M, Schacker T, Reilly C, Carlis J, Haase AT (2008), "SIV-induced intestinal cell apoptosis is the underlying mechanism of the regenerative enteropathy of early infection", *Journal of Infectious Disease*, 197(3), 420–429.
35. Li M, Reilly C (2008), "Assessing the quality of hybridized RNA in Affymetrix GeneChips using linear regression". *The Journal of Biomolecular Techniques*, 19(2), 122–128.
36. Li M, Reilly C, Hanson T (2008), "A semiparametric test to detect associations between quantitative traits and candidate genes in structured populations". *Bioinformatics*, 24(20), 2356–2362.
37. Vlasova IA, Tahoe NM, Fan D, Larsson O, Rattenbacher B, Sternjohn JR, Vasdevani J, Karypis G, Reilly C, Bitterman PB, Bohjanen PR (2008), "Conserved GU-rich elements mediate mRNA decay by binding to CUG-binding protein 1". *Molecular Cell*, 29(2), 263–270.
38. Baker JV, Peng G, Rapkin J, Krason D, Reilly C, Cavert WP, Abrams DI, MacArthur RD, Henry K, Neaton JD; Terry Bein Community Programs for Clinical Research on AIDS (CPCRA). (2008), "Poor initial CD4+ recovery with antiretroviral therapy prolongs immune depletion and increases risk for AIDS and non-AIDS diseases". *The Journal of Acquired Immune Deficiency Syndrome*, 48(5), 541–546.
39. Estes J, Baker JV, Brenchley JM, Khoruts A, Barthold JL, Bantle A, Reilly CS, Beilman GJ, George ME, Douek DC, Haase AT, Schacker TW (2008), "Collagen deposition limits immune reconstitution in the gut". *Journal Infectious Disease*, 198(4), 456–464.
40. Estes JD, Gordon SN, Zeng M, Chahroudi AM, Dunham RM, Staprans SI, Reilly CS, Silvestri G, Haase AT (2008), "Early resolution of acute immune activation and induction of PD-1 in SIV-infected sooty mangabeys distinguishes nonpathogenic from pathogenic infection in rhesus macaques". *Journal of Immunology*, 180(10), 6798–6807.
41. Li Q, Smith AJ, Schacker TW, Carlis JV, Duan L, Reilly CS, Haase AT (2009), "Microarray analysis of lymphatic tissue reveals stage-specific, gene expression signatures in HIV-1 infection", *Journal of Immunology*, 183, 1975–1982.
42. Kong X, Reilly C. (2009), "A Bayesian approach to the alignment of mass spectra", *Bioinformatics*, 25(24):3213–3220.
43. Li Q, Skinner PJ, Ha SJ, Duan L, Mattila TL, Hage A, White C, Barber DL, O'Mara L, Southern PJ, Reilly CS, Carlis JV, Miller CJ, Ahmed R, Haase AT (2009), "Visualizing antigen-specific and infected cells in situ predicts outcomes in early viral infection", *Science*, 323(5922), 1726–1729.
44. Li Q, Estes JD, Schlievert PM, Duan L, Brosnahan AJ, Southern PJ, Reilly CS, Peterson ML, Schultz-Darken N, Brunner KG, Nephew KR, Pambuccian S, Lifson JD, Carlis JV, Haase AT (2009), "Glycerol monolaurate prevents mucosal SIV transmission", *Nature*, 458(7241), 1034–1038.
45. Xiao G, Reilly C, Khodursky AB (2009), "Improved detection of differentially expressed genes through incorporation of gene locations", *Biometrics*, 65(3), 805–814.
46. Smith AJ, Schacker TW, Reilly C, Haase AT (2010), "A role for syndecan-1 and claudin-2 in microbial translocation during HIV-1 infection", *Journal of Acquired Immune Deficiency Syndrome*, 55(3), 306–315.

47. Winstead CJ, Reilly CS, Moon JJ, Jenkins MK, Hamilton SE, Jameson SC, Way SS, Khoruts A (2010), "CD4+CD25+Foxp3+ regulatory T cells optimize diversity of the conventional T cell repertoire during reconstitution from lymphopenia", *Journal of Immunology*, 184(9), 4749–4760.
48. Li M, Reilly C, Hanson T (2010), "Association tests for a censored quantitative trait and candidate gene in structured populations with multilevel genetic relatedness", *Biometrics*, 66(3), 925–933.
49. Smith AJ, Li Q, Wietgreffe SW, Schacker TW, Reilly CS, Haase AT (2010), "Host genes associated with HIV-1 replication in lymphatic tissue", *Journal of Immunology*, 185(9), 5417–5424.
50. Zeng M, Smith AJ, Wietgreffe SW, Southern PJ, Schacker TW, Reilly CS, Estes JD, Burton GF, Silvestri G, Lifson JD, Carlis JV, Haase AT (2011), "Cumulative mechanisms of lymphoid tissue fibrosis and T cell depletion in HIV-1 and SIV infections", *Journal of Clinical Investigation*, 121(3), 998–1008.
51. Smith AJ, Toledo CM, Wietgreffe SW, Duan L, Schacker TW, Reilly CS, Haase AT. (2011), "The immunosuppressive role of IL-32 in lymphatic tissue during HIV-1 infection", *Journal of Immunology*, 186(11), 6576–1684..
52. Dwyer DE; INSIGHT Influenza Study Group. (2011), "Surveillance of illness associated with pandemic (H1N1) 2009 virus infection among adults using a global clinical site network approach: the INSIGHT FLU 002 and FLU 003 studies", *Vaccine*, 29 Suppl 2:B56–62.
53. Reilly C, Cervenka T, Hertz MI, Becker T, Wendt CH. (2011), "Human neutrophil peptide in lung chronic allograft dysfunction", *Biomarkers*, 16(8), 663–9.
54. Zeng M, Southern PJ, Reilly CS, Beilman GJ, Chipman JG, Schacker TW, Haase AT. (2012), "Lymphoid tissue damage in HIV-1 infection depletes naive T cells and limits T cell reconstitution after antiretroviral therapy", *PLoS Pathogen*, 8(1), e1002437.
55. Pragman AA, Kim HB, Reilly CS, Wendt C, Isaacson RE. (2012), "The lung microbiome in moderate and severe chronic obstructive pulmonary disease", *PLoS One*, 7(10), e47305.
56. Rudney JD, Chen R, Lenton P, Li J, Li Y, Jones RS, Reilly C, Fok AS, Aparicio C. (2012), "A reproducible oral microcosm biofilm model for testing dental materials", *Journal of Applied Microbiology*, 113(6), 1540–1553.
57. Davey RT Jr, Lynfield R, Dwyer DE, Losso MH, Cozzi-Lepri A, Wentworth D, Lane HC, Dewar R, Rupert A, Metcalf JA, Pett SL, Uyeki TM, Bruguera JM, Angus B, Cummins N, Lundgren J, Neaton JD; INSIGHT FLU 002 & 003 Study Groups. (2013), "The association between serum biomarkers and disease outcome in influenza A(H1N1)pdm09 virus infection: results of two international observational cohort studies", *PLoS One*, 8(2), e57121.
58. Sasikala-Appukuttan AK, Kim HO, Kinzel NJ, Hong JJ, Smith AJ, Wagstaff R, Reilly C, Piatak M Jr, Lifson JD, Reeves RK, Johnson RP, Haase AT, Skinner PJ. (2013), "Location and dynamics of the immunodominant CD8 T cell response to SIV Δ nef immunization and SIVmac251 vaginal challenge", *PLoS One*, 8(12), e81623.
59. Stone MD, Harvey SB, Nelsestuen GL, Reilly C, Hertz MI, Wendt CH. (2014), "Elevated peptides in lung lavage fluid associated with bronchiolitis obliterans syndrome", *PLoS One*, (9)1, e84471.

60. Fletcher CV, Staskus K, Wietgreffe SW, Rothenberger M, Reilly C, Chipman JG, Beilman GJ, Khoruts A, Thorkelson A, Schmidt TE, Anderson J, Perkey K, Stevenson M, Perelson AS, Douek DC, Haase AT, Schacker TW. (2014), "Persistent HIV-1 replication is associated with lower antiretroviral drug concentrations in lymphatic tissues", *Proceedings of the National Academy of the Science U S A.*, 111(6), 2307-2312.
61. Reilly C, Rasmussen K Selberg T, Stevens J, Jones RS (2014), "Biofilm community diversity after exposure of 0.4% stannous fluoride gels", *Journal of Applied Microbiology*, 117, 1798–1809.
62. Laguna TA, Williams CB, Brandy KR, Welchlin-Bradford C, Moen CE, Reilly CS, Wendt CH (2014), "Sputum club cell protein concentration is associated with pulmonary exacerbation in cystic fibrosis", *Journal of Cystic Fibrosis*, S1569-1993(14), 00229-X.
63. Refsland EW, Hultquist JF, Luengas EM, Ikeda T, Shaban NM, Law EK, Brown WL, Reilly C, Emerman M, Harris RS (2014), "Natural polymorphisms in human APOBEC3H and HIV-1 Vif combine in primary T lymphocytes to affect viral G-to-A mutation levels and infectivity", *PLoS Genetics*, 10(11), e1004761.
64. Sanchez JL, Hunt PW, Reilly CS, Hatano H, Beilman GJ, Khoruts A, Jasurda JS, Somsouk M, Thorkelson A, Russ S, Anderson J, Deeks SG, Schacker TW (2014), "Lymphoid fibrosis occurs in long-term nonprogressors and persists with antiretroviral therapy but may be reversible with curative interventions", *Journal of Infectious Disease*, 211(7), 1068–1075.
65. Estes JD, Reilly C, Trubey CM, Fletcher CV, Cory TJ, Piatak M Jr, Russ S, Anderson J, Reimann TG, Star R, Smith A, Tracy RP, Berglund A, Schmidt T, Coalter V, Chertova E, Smedley J, Haase AT, Lifson JD, Schacker TW (2014), "Antifibrotic therapy in simian immunodeficiency virus infection preserves CD4+ T-cell populations and improves immune reconstitution with antiretroviral therapy", *Journal of Infectious Disease*, 211(5), 744–754.
66. Smith AJ, Wietgreffe SW, Shang L, Reilly CS, Southern PJ, Perkey KE, Duan L, Kohler H, Müller S, Robinson J, Carlis JV, Li Q, Johnson RP, Haase AT (2014), "Live simian immunodeficiency virus vaccine correlate of protection: immune complex-inhibitory Fc receptor interactions that reduce target cell availability", *Journal of Immunology*, 193(6), 3126–3133.
67. Li Q, Zeng M, Duan L, Voss JE, Smith AJ, Pambuccian S, Shang L, Wietgreffe S, Southern PJ, Reilly CS, Skinner PJ, Zupancic ML, Carlis JV, Piatak M Jr, Waterman D, Reeves RK, Masek-Hammerman K, Derdeyn CA, Alpert MD, Evans DT, Kohler H, Müller S, Robinson J, Lifson JD, Burton DR, Johnson RP, Haase AT (2014), "Live simian immunodeficiency virus vaccine correlate of protection: local antibody production and concentration on the path of virus entry", *Journal of Immunology*, 193(6), 3113–3125.
68. Beisang D, Reilly C, Bohjanen PR (2014), "Alternative polyadenylation regulates CELF1/CUGBP1 target transcripts following T cell activation", *Gene*, 550(1), 93–100.
69. Rothenberger MK, Keele BF, Wietgreffe SW, Fletcher CV, Beilman GJ, Chipman JG, Khoruts A, Estes JD, Anderson J, Callisto SP, Schmidt TE, Thorkelson A, Reilly C, Perkey K, Reimann TG, Utay NS, Nganou Makamdop K, Stevenson M, Douek DC, Haase AT, Schacker TW (2015), "Large number of rebounding/founder HIV variants emerge from multifocal infection in lymphatic tissues after treatment interruption", *Proceedings of the National Academy of Science U S A*, 112(10), E1126–34.
70. Laguna T, Reilly C, Williams CB, Welchlin C, Wendt CH (2015), "Metabolomics Analysis Identifies Novel Plasma Biomarkers of Cystic Fibrosis Pulmonary Exacerbation", *Pediatric Pulmonology*, 50(9), 869–877.

71. Haase AT, Rakasz E, Schultz-Darken N, Nephew K, Weisgrau KL, Reilly CS, Li Q, Southern PJ, Rothenberger M, Peterson ML, Schlievert PM. (2015), "Glycerol monolaurate microbicide protection against repeat high-dose SIV vaginal challenge", *PLoS One*, 10(6), e0129465.
72. Skinner PJ, Kim HO, Bryant D, Kinzel NJ, Reilly C, Priola SA, Ward AE, Goodman PA, Olson K, Seelig DM (2015), "Treatment of prion disease with heterologous prion proteins", *PLoS One*, 10(7), e0131993.
73. Pragman AA, Kim HB, Reilly CS, Wendt C, Isaacson RE (2015) "Chronic obstructive pulmonary disease lung microbiota diversity may be mediated by age or inhaled corticosteroid use", *Journal of Clinical Microbiology*, 53(3), 1050.
74. Rawson JM, Landman SR, Reilly CS, Mansky LM (2015), "HIV-1 and HIV-2 exhibit similar mutation frequencies and spectra in the absence of G-to-A hypermutation", *Retrovirology*, 12, 60.
75. Rawson JM, Landman SR, Reilly CS, Bonnac L, Patterson SE, Mansky LM (2015), "Lack of mutational hotspots during dicitabine-mediated HIV-1 mutagenesis", *Antimicrobial Agents and Chemotherapy*, 59(11), 6834–6843.
76. Pragman A, Isaacson R, Wendt C, Reilly C (2015), "A method for determining taxonomical contributions to group differences in microbiomic investigations", *Journal of Computational Biology*, 22(10), 930–939.
77. Rudney JD, Jagtap PD, Reilly CS, Chen R, Markowski TW, Higgins L, Johnson JE, Griffin TJ (2015), "Protein relative abundance patterns associated with sucrose-induced dysbiosis are conserved across taxonomically diverse oral microcosm biofilm models of dental caries", *Microbiome*, 3(1) 69.
78. Rasmussen K, Reilly C, Li Y, Jones RS (2016), "Real-time imaging of anti-biofilm effects using CP-OCT", *Biotechnology and Bioengineering*, 113(1), 198–205.
79. Rasmussen K, Nikrad J, Reilly C, Li Y, Jones R (2016), "N-Acetyl-L-cysteine effects on multi-species oral biofilm formation and bacterial ecology", *Letters in Applied Microbiology*, 62(1), 30–38.
80. Rawson JM, Daly MB, Xie J, Clouser CL, Landman SR, Reilly CS, Bonnac L, Kim B, Patterson SE, Mansky LM (2016), "5-azacytidine enhances the mutagenesis of HIV-1 by reduction to 5-aza-2'-deoxycytidine", *Antimicrobial Agents Chemotherapy*, 60(4), 2318-2325
81. Rawson JM, Roth ME, Xie J, Daly MB, Clouser CL, Landman SR, Reilly CS, Bonnac L, Kim B, Patterson SE, Mansky LM (2016), "Synergistic reduction of HIV-1 infectivity by 5-azacytidine and inhibitors of ribonucleotide reductase", *Bioorganic and Medicinal Chemistry Letters*, 24(11), 2410-2422.
82. Wendt CH, Nelsestuen G, Harvey S, Gulcev M, Stone M, Reilly C (2016), "Peptides in bronchoalveolar lavage in chronic obstructive pulmonary disease", *PLoS One*, 11(5):e0155724.
83. Deleage C, Wietgreffe SW, Del Prete G, Morcock DR, Hao XP, Piatak M Jr, Bess J, Anderson JL, Perkey KE, Reilly C, McCune JM, Haase AT, Lifson JD, Schacker TW, Estes JD (2016), "Defining HIV and SIV reservoirs in lymphoid tissues", *Pathogens and Immunity*, 1(1):68-106.
84. Enns EA, Reilly CS, Virnig BA, Baker K, Vogenthaler N, Henry K (2016), "Potential impact of integrating HIV surveillance and clinic data on retention-in-care estimates and re-engagement efforts", *AIDS Patient Care STDS*, 30(9):409-15.

85. Gulcev M, Reilly C, Griffin TJ, Broeckling CD, Sandri BJ, Witthuhn BA, Hodgson SW, Woodruff PG, Wendt CH (2016), "Tryptophan catabolism in acute exacerbations of chronic obstructive pulmonary disease", *International Journal of Chronic Obstructive Pulmonary Disease*, 11, 2435-2446.
86. Pettitt J, Higgs E, Fallah M, Nason M, Stavale E, Marchand J, Reilly C, Jensen K, Digheo-Kemp B, Tuznik K, Logue J, Bolay F, Hensley L (2016), "Assessment and optimization of the GeneXpert diagnostic platform for detection of Ebola virus RNA in seminal fluid", *Journal of Infectious Disease*, pii: jiw599. doi: 10.1093/infdis/jiw599.
87. Shang K, Reilly C (2017), "Nonparametric Bayesian analysis of the 2 sample problem with censoring", *Communications in Statistics: Theory and Methods*, 46(24):12008–12022.
88. Hodgson S, Griffin TJ, Reilly C, Harvey S, Witthuhn BA, Sandri BJ, Kunisaki KM, Wendt CH (2017), "Plasma sphingolipids in HIV-associated chronic obstructive pulmonary disease", *BMJ Open Respir Res*, 3;4(1):e000180.
89. Kennedy SB, Bolay F, Kieh M, Grandits G, Badio M, Ballou R, Eckes R, Feinberg M, Follmann D, Grund B, Gupta S, Hensley L, Higgs E, Janosko K, Johnson M, Kateh F, Logue J, Marchand J, Monath T, Nason M, Nyenswah T, Roman F, Stavale E, Wolfson J, Neaton JD, Lane HC; PREVAIL I Study Group (2017), "Phase 2 Placebo-Controlled Trial of Two Vaccines to Prevent Ebola in Liberia", *N Engl J Med*, 377(15):1438–1447.
90. Laguna TA, Williams CB, Nunez MG, Welchlin-Bradford C, Moen CE, Reilly CS, Wendt CH (2018), "Biomarkers of inflammation in infants with cystic fibrosis", *Respir Res*, 8;19(1):6.
91. Pragman AA, Lyu T, Baller JA, Gould TJ, Kelly RF, Reilly CS, Isaacson RE, Wendt CH (2018), "The lung tissue microbiota of mild and moderate chronic obstructive pulmonary disease", *Microbiome*, 6(1):7.
92. Logue J, Tuznik K, Follmann D, Grandits G, Marchand J, Reilly C, Sarro YDS, Pettitt J, Stavale EJ, Fallah M, Olinger GG, Bolay FK, Hensley LE (2018), "Use of the Filovirus Animal Non-Clinical Group (FANG) Ebola virus immuno-assay requires fewer study participants to power a study than the Alpha Diagnostic International assay", *J Virol Methods*, 255:84–90.
93. Simonsen L, Higgs E, Taylor RJ, Wentworth D, Cozzi-Lepri A, Pett S, Dwyer DE, Davey R, Lynfield R, Losso M, Morales K, Glesby MJ, Weckx J, Carey D, Lane C, Lundgren J; INSIGHT FLU002 and FLU003 Study Groups (2018), "Using Clinical Research Networks to Assess Severity of an Emerging Influenza Pandemic", *Clin Infect Dis*, 67(3):341–349.
94. Kityo C, Makamdop KN, Rothenberger M, Chipman JG, Hoskuldsson T, Beilman GJ, Grzywacz B, Mugenyi P, Ssali F, Akondy RS, Anderson J, Schmidt TE, Reimann T, Callisto SP, Schoepfoerster J, Schuster J, Muloma P, Ssengendo P, Moysi E, Petrovas C, Lanciotti R, Zhang L, Arvalo MT, Rodriguez B, Ross TM, Trautmann L, Sekaly RP, Lederman MM, Koup RA, Ahmed R, Reilly C, Douek DC, Schacker TW (2018), "Lymphoid tissue fibrosis is associated with impaired vaccine responses", *J Clin Invest*, doi: 10.1172/JCI97377.
95. Pragman AA, Gould TJ, Knutson K, Hodgson S, Isaacson RE, Reilly CS, Wendt CH. (2018), "The Chronic Obstructive Pulmonary Disease Frequent Exacerbator Phenotype Is Associated with Decreased Upper Airway Microbiota Diversity". *Ann Am Thorac Soc*. S286.
96. Kelly JD, Weiser SD, Wilson B, Cooper JB, Glayweon M, Sneller MC, Drew C, Steward WT, Reilly C, Johnson K, Fallah MP. (2019), "Ebola virus disease-related stigma among survivors declined in Liberia over an 18-month, post-outbreak period: An observational cohort study". *PLoS Negl Trop Dis*. 13(2):e0007185.

97. Enns EA, Reilly CS, Horvath KJ, Baker-James K, Henry K. (2019) "HIV Care Trajectories as a Novel Longitudinal Assessment of Retention in Care". *AIDS Behav.* 23(9):2532-2541.
 98. PREVAIL III Study Group, Sneller MC[†], Reilly C[†], Badio M, Bishop RJ, Eghrari AO, Moses SJ, Johnson KL, Gayedyu-Dennis D, Hensley LE, Higgs ES, Nath A, Tuznik K, Varughese J, Jensen KS, Dighero-Kemp B, Neaton JD, Lane HC, Fallah MP[†] (2019) "A Longitudinal Study of Ebola Sequelae in Liberia". *N Engl J Med.* 380(10):924-934.
- [†]Co-chairs of writing committee
99. Rothenberger M, Nganou-Makamdop K, Kityo C, Ssali F, Chipman JG, Beilman GJ, Hoskuldsson T, Anderson J, Jasurda J, Schmidt TE, Calisto SP, Pearson H, Reimann T, David C, Perkey K, Southern P, Wietgreffe S, Helgeson E, Reilly C, Haase AT, Douek DC, Fletcher CV, Schacker TW (2019) "Impact of Integrase Inhibition compared to non-nucleoside inhibition on HIV reservoirs in Lymphoid Tissues". *J Acquir Immune Defic Syndr.* 81(3):355-360.
 100. Pragman AA, Knutson KA, Gould TJ, Isaacson RE, Reilly CS, Wendt CH. (2019) "Chronic obstructive pulmonary disease upper airway microbiota alpha diversity is associated with exacerbation phenotype: a case-control observational study." *Respir Res.* 7;20(1):114.
 101. Pragman AA, Knutson KA, Gould TJ, Hodgson SW, Isaacson RE, Reilly CS, Wendt CH. (2019) "Chronic obstructive pulmonary disease upper airway microbiome is associated with select clinical characteristics." *PLoS One.* 14(7):e0219962.
 102. Postnikova EN, Pettitt J, Van Ryn CJ, Holbrook MR, Bollinger L, Yu S, Ca Y, Liang J, Sneller MC, Jahrling PB, Hensley LE, Kuhn JH, Fallah MP, Bennett RS, Reilly C. (2019) "Scalable, semi-automated fluorescence reduction neutralization assay for qualitative assessment of Ebola virus-neutralizing antibodies in human clinical samples." *PLoS One.* 14(8):e0221407.
 103. Li D, Mielke MM, Bell WR, Reilly C, Zhang L, Lin FV, Yu F. (2020) "Blood biomarkers as surrogate endpoints of treatment responses to aerobic exercise and cognitive training (ACT) in amnesic mild cognitive impairment: the blood biomarkers study protocol of a randomized controlled trial (the ACT Trial)." *Trials.* 21(1):19.
 104. Thyagarajan B, Nelson HH, Poynter JN, Prizment AE, Roesler MA, Cassidy E, Putnam S, Amos L, Hickie A, Reilly C, Spector LG, Lazovich D. (2020) "Field Application of Digital Technologies for Health Assessment in the 10,000 Families Study." *Cancer Epidemiol Biomarkers Prev.* 29(4):744-751.
 105. Wendt CH, Castro-Pearson S, Proper J, Pett S, Griffin TJ, Kan V, Carbone J, Koulouris N, Reilly C, Neaton JD; INSIGHT FLU003 Plus Study Group. (2021) "Metabolite profiles associated with disease progression in influenza infection." *PLoS One.* 2021 Apr 2;16(4):e0247493.
 106. Bozman CM, Fallah M, Sneller MC, Freeman C, Fakoli LS 3rd, Shobayo BI, Dighero-Kemp B, Reilly CS, Kuhn JH, Bolay F, Higgs E, Hensley LE. (2021) "Increased Likelihood of Detecting Ebola Virus RNA in Semen by Using Sample Pelleting." *Emerg Infect Dis.* 2021 Apr;27(4):1239-1241.
 107. Higgs ES, Gayedyu-Dennis D, Fisher W, Nason M, Reilly C, Beavogui AH, Aboulhab J, Nordwall J, Lobbo P, Wachekwa I, Cao H, Cihlar T, Hensley L, Lane HC. (2021) "PREVAIL IV: A Randomized, Double-Blind, Two-Phase, Phase 2 Trial of Remdesivir versus Placebo for Reduction of Ebola Virus RNA in the Semen of Male Survivors." *Clin Infect Dis.* 2021 Mar 12:ciab215.

108. Eghrari AO, Shantha JG, Ross RD, Ryn CV, Crozier I, Hayek B, Gradin D, Roberts B, Prakashaporn SG, Amegashie F, Nishant K, Singh G, Dolo R, Fankhauser J, Burkholder B, Pettitt J, Gross R, Brady T, Dighero-Kemp B, Reilly C, Hensley L, Higgs E, Yeh S, Bishop RJ. (2021) "Efficacy and Safety Outcomes of Cataract Surgery in Survivors of Ebola Virus Disease: 12-Month Results From the PREVAIL VII Study." *Transl Vis Sci Technol.* 2021 Jan 25;10(1):32.
109. Eghrari AO, Bishop RJ, Ross RD, Davis B, Larbelee J, Amegashie F, Dolo RF, Prakashaporn SG, Gaisie C, Gargu C, Sosu Y, Sackor J, Cooper PZ, Wallace A, Nyain R, Gray M, Kamara F, Burkholder B, Brady CJ, Ray V, Tawse KL, Yeung I, Neaton JD, Higgs ES, Lane HC, Reilly C, Sneller MC, Fallah MP. (2021) "Characterization of Ebola Virus-Associated Eye Disease." *JAMA Netw Open.* 2021 Jan 4;4(1):e2032216.
110. ACTIV-3/TICO LY-CoV555 Study Group, Lundgren JD, Grund B, Barkauskas CE, Holland TL, Gottlieb RL, Sandkovsky U, Brown SM, Knowlton KU, Self WH, Files DC, Jain MK, Benfield T, Bowdish ME, Leshnowar BG, Baker JV, Jensen JU, Gardner EM, Ginde AA, Harris ES, Johansen IS, Markowitz N, Matthay MA, stergaard L, Chang CC, Davey VJ, Goodman A, Higgs ES, Murray DD, Murray TA, Paredes R, Parmar MKB, Phillips AN, Reilly C, Sharma S, Dewar RL, Teitelbaum M, Wentworth D, Cao H, Klekotka P, Babiker AG, Gelijns AC, Kan VL, Polizzotto MN, Thompson BT, Lane HC, Neaton JD. (2021) "A Neutralizing Monoclonal Antibody for Hospitalized Patients with Covid-19." *N Engl J Med.* 2021 Mar 11;384(10):905-914.
111. Kieh MW, Browne SM, Grandits GA, Blie J, Doe-Anderson JW, Hoover ML, Davis B, Reilly CS, Neaton JD, Lane HC, Kennedy SB. (2020) "Adult and paediatric haematology and clinical chemistry laboratory reference limits for Liberia." *Afr J Lab Med.* 2020 Nov 25;9(1):1080. doi: 10.4102/ajlm.v9i1.1080. eCollection 2020.
112. Pragman, A.A., Fieberg, A.M., Reilly, C.S., Wendt, C. "Chlorhexidine oral rinses for symptomatic COPD: A randomised, blind, placebo-controlled preliminary study." (2021) *BMJ Open*, 11 (12), art. no. e050271.
113. Peacock, J.E., Jr., Herrington, D.M., Edelstein, S.L., Seals, A.L., Plumb, I.D., Saydah, S. et al. for The COVID-19 Community Research Partnership Study Group. "Survey of Adherence with COVID-19 Prevention Behaviors During the 2020 Thanksgiving and Winter Holidays Among Members of the COVID-19 Community Research Partnership." (2022) *Journal of Community Health*, 47 (1), pp. 71-78.
114. Murray, D.D., Babiker, A.G., Baker, J.V., Barkauskas, C.E., Brown, S.M., Chang, C.C., Davey, V.J., Gelijns, A.C., Ginde, A.A., Grund, B., Higgs, E., Hudson, F., Kan, V.L., Lane, H.C., Murray, T.A., Paredes, R., Parmar, M.K.B., Pett, S., Phillips, A.N., Polizzotto, M.N., Reilly, C., Sandkovsky, U., Sharma, S., Teitelbaum, M., Thompson, B.T., Young, B.E., Neaton, J.D., Lundgren, J.D. "Design and implementation of an international, multi-arm, multi-stage platform master protocol for trials of novel SARS-CoV-2 antiviral agents: Therapeutics for Inpatients with COVID-19 (TICO/ACTIV-3)." (2022) *Clinical Trials*, 19 (1), pp. 52-61.
115. Moses, S.J., Wachekwa, I., van Ryn, C., Grandits, G., Pau, A., Badio, M., Kennedy, S.B., Sneller, M.C., Higgs, E.S., Clifford Lane, H., Fallah, M., Migueles, S.A., Reilly, C. "The impact of the 2014 Ebola epidemic on HIV disease burden and outcomes in Liberia West Africa." (2021) *PLoS ONE*, 16 (9 September), art. no. e0257049.
116. Miller, J.S., Davis, Z.B., Helgeson, E., Reilly, C., Thorkelson, A., Anderson, J., Lima, N.S., Jorstad, S., Hart, G.T., Lee, J.H., Safrit, J.T., Wong, H., Cooley, S., Gharu, L., Chung, H., Soon-Shiong, P., Dobrowolski, C., Fletcher, C.V., Karn, J., Douek, D.C., Schacker, T.W.

“Safety and virologic impact of the IL-15 superagonist N-803 in people living with HIV: a phase 1 trial.” (2022) *Nature Medicine*, 28 (2), pp. 392-400.

117. Lundgren, J.D., Grund, B., Barkauskas, C.E., Holland, T.L., Gottlieb, R.L., Sandkovskyc, U., Brown, S.M., Knowlton, K.U., Self, W.H., Files, D.C., Jain, M.K., Benfield, T., Bowdish, M.E., Leshnow, B.G., Baker, J.V., Jensen, J.-U., Gardner, E.M., Ginde, A.A., Harris, E.S., Johansen, I.S., Markowitz, N., Matthay, M.A., Ostergaard, L., Chang, C.C., Goodman, A.L., Chang, W., Dewar, R.L., Gerry, N.P., Higgs, E.S., Highbarger, H., Murray, D.D., Murray, T.A., Natarajan, V., Paredes, R., Parmar, M.K.B., Phillips, A.N., Reilly, C., Rupert, A.W., Sharma, S., Shaw-Saliba, K., Sherman, B.T., Teitelbaum, M., Wentworth, D., Cao, H., Klekotka, P., Babiker, A.G., Davey, V.J., Gelijns, A.C., Kan, V.L., Polizzotto, M.N., Thompson, B.T., Lane, H.C., Neaton, J.D. “Responses to a Neutralizing Monoclonal Antibody for Hospitalized Patients With COVID-19 According to Baseline Antibody and Antigen Levels.” (2022) *Annals of Internal Medicine*, 175 (2), pp. 234-243.
118. Kelly, J.D., Badio, M., Drew, C., Wilson, B., Cooper, J.B., Glayweon, M., Johnson, K., Moses, J.S., Gayedu-Dennis, D., Torres, J.M., Oldenburg, C.E., Davidson, M.C., Huang, C.-Y., Steward, W.T., Sneller, M.C., Rutherford, G.W., Reilly, C., Fallah, M.P., Weiser, S.D. “Triangulating Evidence to Infer Pathways that Influence Ebola Virus Disease-Related Stigma and Clinical Findings among Survivors: An Observational Cohort Study.” (2021) *The American Journal of Tropical Medicine and Hygiene*, 105 (6), pp. 1563-1568.
119. Johnstone, K.F., Wei, Y., Bittner-Eddy, P.D., Vreeman, G.W., Stone, I.A., Clayton, J.B., Reilly, C.S., Walbon, T.B., Wright, E.N., Hoops, S.L., Boyle, W.S., Costalonga, M., Herzberg, M.C. “Calprotectin (S100A8/A9) is an innate immune effector in experimental Periodontitis.” (2021) *Infection and Immunity*, 89 (10), art. no. e00122-21,
120. Hoff, N.A., Bratcher, A., Kelly, J.D., Musene, K., Kompany, J.P., Kabamba, M., Mbala-Kingebeni, P., Dighero-Kemp, B., Kocher, G., Elliott, E., Reilly, C., Halbrook, M., Kebela, B.I., Gadoth, A., Mwamba, G.N., Tambu, M., McIlwain, D.R., Mukadi, P., Hensley, L.E., Ahuka-Mundike, S., Rutherford, G.W., Muyembe-Tamfum, J.J., Rimoin, A.W. “Immunogenicity of rVSV-ZEBOV-GP Ebola vaccination in exposed and potentially exposed persons in the Democratic Republic of the Congo.” (2022) *Proceedings of the National Academy of Sciences of the United States of America*, 119 (6), art. no. e2118895119.
121. ACTIV-3/Therapeutics for Inpatients with COVID-19 (TICO) Study Group. “Efficacy and safety of two neutralising monoclonal antibody therapies, sotrovimab and BRII-196 plus BRII-198, for adults hospitalised with COVID-19 (TICO): a randomised controlled trial.” (2022) *Lancet Infect Dis*, 22(5):622-635.
122. Kelly JD, Frankfurter RG, Tavs JM, Barrie MB, McGinnis T, Kamara M, Freeman A, Quiwah K, Davidson MC, Dighero-Kemp B, Gichini H, Elliott E, Reilly C, Hensley LE, Lane HC, Weiser SD, Porco TC, Rutherford GW, Richardson ET. “Association of Lower Exposure Risk With Paucisymptomatic/Asymptomatic Infection, Less Severe Disease, and Unrecognized Ebola Virus Disease: A Seroepidemiological Study.” (2022) *Open Forum Infect Dis*, 9(4):ofac052.
123. Kroon E, Chottanapund S, Buranapraditkun S, Sacdalan C, Colby DJ, Chomchey N, Prueksakaew P, Pinyakorn S, Trichavaroj R, Vasan S, Manasnayakorn S, Reilly C, Helgeson E, Anderson J, David C, Zulk J, de Souza M, Tovanabutra S, Schuetz A, Robb ML, Douek DC, Phanuphak N, Haase A, Ananworanich J, Schacker TW. “Paradoxically Greater Persistence of HIV RNA-Positive Cells in Lymphoid Tissue When ART Is Initiated in the Earliest Stage of Infection.” (2022) *J Infect Dis*, 225(12):2167-2175.

124. Drew C, Badio M, Dennis D, Hensley L, Higgs E, Sneller M, Fallah M, Reilly C. “Simplifying the estimation of diagnostic testing accuracy over time for high specificity tests in the absence of a gold standard.” (2022) *Biometrics*, doi: 10.1111/biom.13689.
125. Kelly JD, Van Ryn C, Badio M, Fayiah T, Johnson K, Gayedyu-Dennis D, Weiser SD, Porco TC, Martin JN, Sneller MC, Rutherford GW, Reilly C, Fallah MP, Moses JS. “ Clinical sequelae among individuals with pauci-symptomatic or asymptomatic Ebola virus infection and unrecognised Ebola virus disease in Liberia: a longitudinal cohort study.” (2022) *Lancet Infect Dis.*, 22(8):1163-1171.
126. ACTIV-3Therapeutics for Inpatients with COVID-19 (TICO) Study Group. “ Tixagevimab-cilgavimab for treatment of patients hospitalised with COVID-19: a randomised, double-blind, phase 3 trial.” (2022) *Lancet Respir Med.*, 10(10):972-984.
127. Wietgreffe SW, Duan L, Anderson J, Marqus G, Sanders M, Cummins NW, Badley AD, Dobrowolski C, Karn J, Pagliuzza A, Chomont N, Sannier G, Dub M, Kaufmann DE, Zuck P, Wu G, Howell BJ, Reilly C, Herschhorn A, Schacker TW, Haase AT. “ Detecting Sources of Immune Activation and Viral Rebound in HIV Infection.” (2022) *J Virol.*, 96(15):e0088522.
128. ACTIV-3/TICO Study Group. “Efficacy and Safety of Ensovibep for Adults Hospitalized With COVID-19 : A Randomized Controlled Trial.” (2022) *Ann Intern Med.*, 175(9):1266-1274.
129. ACTIV-3/TICO Study Group. “The Association of Baseline Plasma SARS-CoV-2 Nucleocapsid Antigen Level and Outcomes in Patients Hospitalized With COVID-19.” (2022) *Ann Intern Med.*, 175(10):1401-1410.
130. Gayedyu-Dennis D, Fallah MP, Drew C, Badio M, Moses JS, Fayiah T, Johnson K, Richardson ET, Weiser SD, Porco TC, Martin JN, Sneller MC, Rutherford GW, Reilly C, Lindan CP, Kelly JD. “ Identifying pauci-/asymptomatic and unrecognized Ebola virus disease among close contacts based on exposure risk assessments and screening algorithms.” (2022) *J Infect Dis.*, jiac359. doi: 10.1093/infdis/jiac359.
131. Delaney M, Telke S, Zou S, Williams MJ, Aridi JO, Rudd KE, Puyana JC, Kumar P, Appiah B, Dei-Adomakoh Y, Asamoah-Akuoko L, Olayemi E, Singogo E, Hosseinipour MC, M'baya B, Chipeta E, Reilly C. “The BLOODSAFE program: Building the future of access to safe blood in Sub-Saharan Africa.” (2022) *Transfusion.*, 62(11):2282-2290.
132. Reilly CS, Borges H, Baker JV, Safo SE, Sharma S, Polizzotto MN, Pankow JS, Hu X, Sherman BT, Babiker AG, Lundgren JD, Lane HC. “ Investigation of Causal Effects of Protein Biomarkers on Cardiovascular Disease in Persons With HIV.” (2023) *J Infect Dis.*, 227(8):951-960.
133. Mudalegundi S, Ross RD, Larbelee J, Amegashie F, Dolo RF, Prakalapakorn GS, Ray V, Gargu C, Sosu Y, Sackor J, Cooper PZ, Wallace A, Nyain R, Burkholder B, Van Ryn C, Davis B, Fallah MP, Reilly C, Bishop RJ, Eghrari AO. “Long-Term Decrease in Intraocular Pressure in Survivors of Ebola Virus Disease in the Partnership for Research on Vaccines and Infectious Diseases in Liberia (PREVAIL) III Study.” (2022) *Ophthalmol Sci.*, 3(2):100238.
134. COVID-19 Community Research Partnership. “ The COVID-19 Community Research Partnership: a multistate surveillance platform for characterizing the epidemiology of the SARS-CoV-2 pandemic.”, (2022) *Biol Methods Protoc*, 7(1):bpac033.
135. Vanden Noven ML, Larson M, Lee E, Reilly C, Tracy MF, Keller-Ross ML. “ Perceptions, Benefits, and Use of Complementary and Integrative Therapies to Treat Menopausal Symptoms: A Pilot Study.”, *Womens Health Rep*, 7(1):bpac033.

136. Safo SE, Haine L, Baker J, Reilly C, Duprez D, Neaton JD, Jain MK, Arenas-Pinto A, Polizzotto M, Staub T; ESPRIT, INSIGHT FIRST, SMART and START study groups. “Derivation of a Protein Risk Score for Cardiovascular Disease Among a Multiracial and Multiethnic HIV+ Cohort. ”, (2023) *J Am Heart Assoc.*, 12(13):e027273.
137. Brown SM, Barkauskas CE, Grund B, Sharma S, Phillips AN, Leither L, Peltan ID, Lanspa M, Gilstrap DL, Mourad A, Lane K, Beitler JR, Serra AL, Garcia I, Almasri E, Fayed M, Hubel K, Harris ES, Middleton EA, Barrios MAG, Mathews KS, Goel NN, Acquah S, Mosier J, Hypes C, Salvaggio Campbell E, Khan A, Hough CL, Wilson JG, Levitt JE, Duggal A, Dugar S, Goodwin AJ, Terry C, Chen P, Torbati S, Iyer N, Sandkovsky US, Johnson NJ, Robinson BRH, Matthay MA, Aggarwal NR, Douglas IS, Casey JD, Hache-Marliere M, Georges Youssef J, Nkemdirim W, Leshnower B, Awan O, Pannu S, O’Mahony DS, Manian P, Awori Hayanga JW, Wortmann GW, Tomazini BM, Miller RF, Jensen JU, Murray DD, Bickell NA, Zatakia J, Burris S, Higgs ES, Natarajan V, Dewar RL, Schechner A, Kang N, Arenas-Pinto A, Hudson F, Ginde AA, Self WH, Rogers AJ, Oldmixon CF, Morin H, Sanchez A, Weintrob AC, Cavalcanti AB, Davis-Karim A, Engen N, Denning E, Taylor Thompson B, Gelijns AC, Kan V, Davey VJ, Lundgren JD, Babiker AG, Neaton JD, Lane HC; ACTIV-3b/Therapeutics for Severely Ill Inpatients with COVID-19 (TESICO) Study Group. “Intravenous aivaptadil and remdesivir for treatment of COVID-19-associated hypoxaemic respiratory failure in the USA (TESICO): a randomised, placebo-controlled trial. ”, (2023) *Lancet Respir Med.*, S2213-2600(23)00147-9.
138. Fallah MP, Reilly C, Van Ryn C, Badio M, Camanor SW, Kaler SG, Johnson B, Orone R, Flumo H, Moses SJ, Johnson KL, Gorpudolo N, Gayedyu-Dennis D, Dighero-Kemp B, Fayiah J, Marron L, Hensley LE, Taylor RJ, Higgs ES, Lane HC, Neaton JD, Sneller MC. “Pregnancy, pregnancy outcomes, and infant growth and development after recovery from Ebola virus disease in Liberia: an observational cohort study. ”, (2023) *Lancet Glob Health.*, 11(7):e1053-e1060.
139. Wietgreffe SW, Anderson J, Duan L, Southern PJ, Zuck P, Wu G, Howell BJ, Reilly C, Kroon E, Chottanapund S, Buranapraditkun S, Sacdalan C, Tulmethakaan N, Colby DJ, Chomchey N, Prueksakaew P, Pinyakorn S, Trichavaroj R, Mitchell JL, Trautmann L, Hsu DC, Vasan S, Manasnayakorn S, de Souza M, Tovanabutra S, Schuetz A, Robb ML, Phanuphak N, Ananworanich J, Schacker TW, Haase AT. “Initial productive and latent HIV infections originate in vivo by infection of resting T cells.”, (2023) *J Clin Invest.*, e171501. doi: 10.1172/JCI171501.
140. Singogo E, Chagomerana M, Van Ryn C, M’bwana R, Likaka A, M’baya B, Puerto-Meredith S, Chipeta E, Mwapasa V, Muula A, Reilly C, Hosseinipour MC; Malawi BLOODSAFE Program. “Prevalence and incidence of transfusion-transmissible infections among blood donors in Malawi: A population-level study.”, (2023) *Transfus Med.*, 33(6):483-496.
141. Jensen TO, Grandits GA, Jain MK, Murray TA, Grund B, Shaw-Saliba K, Matthay MA, Abassi M, Ardelt M, Baker JV, Chen P, Dewar RL, Goodman AL, Hatlen TJ, Highbarger HC, Holodniy M, Lallemand P, Laverdure S, Leshnower BG, Looney D, Moschopoulos CD, Mugerwa H, Murray DD, Mylonakis E, Nagy-Agren S, Rehman MT, Rupert A, Stevens RA, Turville S, Weintrob A, Wick K, Lundgren J, Ko ER; ACTIV-3/TICO Study Group. “Effect of Neutralizing Monoclonal Antibody Treatment on Early Trajectories of Virologic and Immunologic Biomarkers in Patients Hospitalized With COVID-19. ”, (2024) *J Infect Dis.*, 229(3):671-679.
142. Knudsen AD, Eskelund CW, Benfield T, Zhao Y, Gelpi M, Kber L, Trseid M, Kofoed KF, Ostrowski SR, Reilly C, Borges H, Grnbk K, Nielsen SD. “Clonal hematopoiesis of indeterminate potential in persons with HIV.”, (2024) *AIDS*, 38(4):487-495.

143. Pragman AA, Hodgson SW, Wu T, Zank A, Reilly CS, Wendt CH. "Sputum microbiome - diversity is a key feature of the COPD frequent exacerbator phenotype.", (2024) *ERJ Open Res.*, 10(1):00595-2023.
144. Aggarwal NR, Nordwall J, Braun DL, Chung L, Coslet J, Der T, Eriobu N, Ginde AA, Hayanga AJ, Highbarger H, Holodniy M, Horcajada JP, Jain MK, Kim K, Laverdure S, Lundgren J, Natarajan V, Nguyen HH, Pett SL, Phillips A, Poulakou G, Price DA, Robinson P, Rogers AJ, Sandkovsky U, Shaw-Saliba K, Sturek JM, Trautner BW, Waters M, Reilly C; ACTIV-3/TICO Study Group. "Viral and Host Factors Are Associated With Mortality in Hospitalized Patients With COVID-19." (2024) *Clin Infect Dis.*, 78(6):1490-1503.
145. Pragman AA, Hodgson SW, Wu T, Zank A, Kelly RF, Reilly CS, Wendt CH. "Tobacco use, self-reported professional dental cleaning habits, and lung adenocarcinoma diagnosis are associated with bronchial and lung microbiome alpha diversity. " (2024) *Respir Res.*, 25(1):130.
146. Mrup SB, Leung P, Reilly C, Sherman BT, Chang W, Milojevic M, Milinkovic A, Liappis A, Borgwardt L, Petoumenos K, Paredes R, Mistry SS, MacPherson CR, Lundgren J, Helleberg M, Reekie J, Murray DD; INSIGHT FIRST and START study groups. "The association between single-nucleotide polymorphisms within type 1 interferon pathway genes and human immunodeficiency virus type 1 viral load in antiretroviral-naïve participants." (2024) *AIDS Res Ther.* 21(1):27.
147. Jensen TO, Murray TA, Grandits GA, Jain MK, Grund B, Shaw-Saliba K, Matthay MA, Abassi M, Ardelt M, Baker JV, Chen P, Dewar RL, Goodman AL, Hatlen TJ, Highbarger HC, Holodniy M, Lallemand P, Laverdure S, Leshnower BG, Looney D, Moschopoulos CD, Mugerwa H, Murray DD, Mylonakis E, Nagy-Agren S, Rehman MT, Rupert A, Stevens R, Turville S, Weintrob A, Wick K, Lundgren J, Ko ER; ACTIV-3/TICO Study Group. "Early trajectories of virological and immunological biomarkers and clinical outcomes in patients admitted to hospital for COVID-19: an international, prospective cohort study." (2024) *Lancet Microbe.*, 5(6):e559-e569.

Book Chapters

1. Reilly C, Zeringue A. (2004), "Improved predictions of lynx trappings using a Biological model", in 2004 *Applied Bayesian Modeling and Causal Inference from Incomplete-Data Perspectives*, ed.s Meng, X. and Gelman, A., Wiley.

Books

1. Reilly C, (2009), *Statistics in Human Genetics and Molecular Biology*, Chapman & Hall/CRC Press.

Presentations, Posters and Abstracts

1. Reilly, C. and Gelman, A. "Post-stratification without population level information: with application to political polling," Case Studies in Bayesian Statistics Workshop 5, Pittsburgh PA, September 24-25, 1999.
2. Schacker, T., Ngyuen, P., Gatell, J., Reilly, C., Martinez, E., Horban, A., Bakawska, E., Leeuwen, R., Wolinsky, S., Haase, A., Murphy, R. "Persistent depletion of CD4+ T cells in lymphoid tissues among patients randomized to mono-class vs. dual-class regimens in the Atlantic study", The 1st IAS conference on HIV pathogenesis and treatment, Buenos Aires, Argentina, July 8–11, 2001.

3. Reilly, C. "A method for normalizing microarrays using the transcripts that are not differentially expressed," Cape Cod Workshop on Monte Carlo Methods, Hyannis, MA, September 13-15, 2002.
4. Schacker, T., Nguyen, P., Beilman, G., Larson, M., Reilly, C., Wolinsky, S., and Haase, A. "The impact on immune reconstitution of fibrosis in the T cell zone niche of secondary lymphatic tissues during HIV-1 infection," presented by T. Schacker at IDSA, Chicago, October 24-26, 2002.
5. Sandgratthe, S., Reilly, C. "Comparing weather prediction models", Northwest Weather Workshop Seattle on 6,7 March, 2003.
6. Raghavan, A., Ogilvie, R., Reilly, C., Abelson, M., Robison, R., Raghavan, S., Vasdewani, J., Krathwohl, M., Bohjanen, P. "Global analysis of mRNA decay in T cells", presented by P. Bohjanen, Vienna RNA Society, June 2003.
7. Reilly, C. "Correlation in oligonucleotide space: using the correlation to conduct more accurate inference" Joint Statistical Meetings, San Francisco, CA, August 9, 2003.
8. Reilly, C. "Correlation in oligonucleotide space: using the correlation to conduct more accurate inference" Biostatistics Department Seminar, Birmingham, AL, February 10, 2004.
9. Reilly, C. "A completely non-parametric approach to the analysis of longitudinal microarray experiments", International Conference on the Analysis of Genomic Data, Boston, MA, May 11, 2004.
10. Skinner, P., Abbassi, H., Cheseboro, B., Race, R., Reilly, C., Haase, A. "Gene expression alterations in brains of scrapie infected mice", presented by Pam Skinner, June 2004.
11. Reilly, C. "A new approach to measuring goodness of fit for spatial and temporal data", International Chinese Statistical Association, San Diego, CA, June 7, 2004.
12. Blumenthal, M., Miller, M., Reilly, C., Oetting, W., Willaert, B., Luah, S-S., Brott, M., King, R. "Analysis of ADORA3 as a possible candidate gene for Asthma", Annual Meeting of the American Academy of Allergy, Asthma and Immunology, presented by M. Blumenthal, August 2004.
13. Blumenthal, M., Reilly, C., Miller, M., Willaert, B., Luah, S-S., Oetting, W., King, R. "Identification of asthma susceptibility genes using cluster analysis", Annual Meeting of the American Academy of Allergy, Asthma and Immunology, presented by M. Blumenthal, August 2004.
14. Reilly, C. "A completely non-parametric approach to the analysis of longitudinal microarray experiments", Joint Statistical Meetings, Toronto, ON, August 11, 2004.
15. Reilly, C., Blumenthal, M., King, R., Oetting, W., Miller, M., "Asthma Phenotypes: a unique cluster of physiologic variables", Annual Meeting of the American Academy of Allergy, Asthma and Immunology, presented by M. Blumenthal, Oct. 2004.
16. Reilly, C. "Normalization of microarrays in non-standard settings" (2005), Conference for the International Society for Bayesian Analysis, Bormio, Italy, January 11, 2005.
17. Reilly, C. "Bayesian calibration of the mass/charge axis in MALDI-TOF mass spectrometry" (2005), Joint Statistical Meetings, Minneapolis, MN, August 8, 2005.

18. Fan, D., Bitterman, P., Reilly, C., "Translational Efficiency is Linked to Specific mRNA Elements During Apoptotic Rescue by Enforced Activation of the Protein Synthesis Machinery", International Conference on Intelligent Systems for Molecular Biology, presented by D. Fan, 2005.
19. Skinner, P., Abbassi, H., Cheseboro, B., Race, R., Reilly, C., Haase, A., "Gene expression alterations in brains of scrapie infected mice", Pathobiology, presented by P. Skinner, 2005.
20. Nordgaard, C.L., Berg, K. M., Kappahn, B. J., Reilly, C., Feng, X., Olsen, D. A., Ferrington, D. A., "Altered retinal pigment epithelium protein expression associated with the progression of age-related macular degeneration", The Association for Research in Vision and Ophthalmology, presented by C.L. Nordgaard, 2005.
21. Ethen, C.M., Basak, N., Feng, X., Olsen, T.W., Reilly, C., Ferrington, D.A., "Proteomic analysis of retinal protein expression with the progression of AMD", The Association for Research in Vision and Ophthalmology, presented by C.M. Ethen, 2005.
22. Krason, D., Reilly, C., Leduc, R., Neaton, J., Abrams, D., Schacker, T., "Incomplete Immune reconstitution in HIV-1 infection after 2 years of highly active anti-retroviral therapy", The Infectious Disease Society of America, presented by D. Krason, 2005.
23. Reilly, C. "Bayesian calibration of the mass/charge axis in MALDI-TOF mass spectrometry" (2005), Eastern North American Biometric Society Meeting, Tampa, FL, March 28, 2006.
24. Reilly, C. "A new method for detecting linkage signals from pedigrees in the presence of allelic heterogeneity" (2007), Joint Statistical Meetings, Salt Lake City, UT, August 8, 2007.
25. Zheng Y, Reilly C "Bayesian variogram modeling in a metric space" (2007), Joint Statistical Meetings, Salt Lake City, UT, August 8, 2007.
26. Li M, Reilly C, Carlin B "Bayesian multivariate spatial models for association mapping in structured samples" (2007), Joint Statistical Meetings, Salt Lake City, UT, August 8, 2007.
27. Baker J, Cavert W, Krason D, Reilly C, Henry K, Abrams D, MacArthur R, Peng G, Neaton J, Rapkin J "Poor Initial CD4+ Recovery with Anti-retroviral Therapy Prolongs Immune Depletion and Increases Risk for AIDS and Non-AIDS Diseases: Results from the CPCRA FIRST study" (2007), CROI.
28. Li Q, Duan L, Ma Z, Reilly C, Miller C, Haase AT "The critical role CD4+ T cells may play in intra-vaginal transmission of SIV" (2007), 25th Annual Symposium on Nonhuman Primate Models for AIDS.
29. Barthold B, Khoruts A, Reilly C, Haase A, Estes J, Schacker T "Collagen deposition limits immune reconstitution in the gut" (2007), CROI.
30. Reilly, C. "A spatio-temporal model of viral production by an infected cell" (2008), Joint Statistical Meetings, Denver, CO, August 5, 2008.
31. Karunadharma PP, Nordgaard CL, Reilly C, Feng X, Olsen TW, Ferrington DA "Age-related changes in protein content of the human retinal pigment epithelium" (2008), ARVO.
32. Baker J, Barthold B, Khoruts A, Estes J, Reilly C, Schacker T "Collagen deposition limits immune reconstitution in the gut" (2008), Conference on Retroviruses and Opportunistic Infections.

33. Higgins L, Yang L, Anderson LB, McGowan, TF, Reilly C, Witthuhn BA, Gourley, GR “How reproducible is iTRAQ Triplicate LC-MS/MS analysis of normal colon tissue tryptic peptides labeled with iTRAQ 4-plex reagents” (2008), American Society for Mass Spectrometry.
34. Smith AJ, Li Q, Wietgreffe SW, Schacker TW, Reilly CS, Haase AT “The relationship between virus replication and gene expression in lymphatic tissue during HIV-1 infection”, 2010, International HIV & Hepatitis Drug Resistance Workshop & Curative Strategies Conference.
35. Reilly C “An introductory overview of the current state of statistical genetics” (2011), JSM.
36. Skinner P, Kim H, Kinzel N, Reilly C, Olson K. “Treatment of prion disease with heterologous recombinant prion proteins”, 2011, Prion 2011, Montreal, Canada.
37. Zeng M, Southern PJ, Reilly CS, Schacker TW, Haase AT. ”Lymphoid tissue damage in HIV-1 infection depletes naive T cells and limits naive T cell reconstitution after antiretroviral therapy”, 2011, Institute for Molecular Virology Symposium, Minneapolis, MN.
38. Mauzy MJ, Lancto CA, Enomoto S, Abrohamson MS, Reilly C, Rutherford MS. “Comparative cryptosporidium transcriptomics reveals disparate patterns of *C. parvum* and *C. hominis* gene expression during in vitro culture”, 2012, International Giardia and Cryptosporidium Conference, Wellington, New Zealand.
39. Li J, Li Y, Chen R, Carrera C, Reilly C, Fok A, Rudney J, Jones R, Aparicio C. “Surface degradation of dental resin composites induced by microcosm biofilms grown in a bioreactor directly from pediatric donor’s plaque”, 2012, World Biomaterials Congress, Chengdu, China.
40. Sanchez J, Rothenberger M, Reilly C, Russ S, Deeks S, Schacker T, ”Persistent Abnormalities of Lymphoid Structures in HIV Viremic Controllers”, Conference on Retroviruses and Opportunistic Infections, Atlanta, GA, 2013.
41. Rothenberger M, Stevenson M, Fletcher C, Beilman G, Chipman J, Khoruts A, Reilly C, Wietgreffe S, Haase AT, Shacker T. “Multifocal detection of HIV-1 RNA in lymphatic tissues during early viral recrudescence after treatment interruption”. Conference on Retroviruses and Opportunistic Infections, Atlanta, GA, 2013.
42. Laguna TA, Williams CB, Brandy K, Welch CW, Moen CE, Reilly CS, Wendy CH. “Sputum CC10 concentration as a potential biomarker of cystic fibrosis lung disease”. The American Thoracic Society, Philadelphia, PA, 2013.
43. Laguna TA, Williams CB, Sauer A, Brandy K, Welch CW, Moen CE, Reilly CS, Wendt CH. “Urinary desmosine and cathepsin B concentrations in healthy controls without cystic fibrosis”. The American Thoracic Society, Philadelphia, PA, 2013.
44. Gulcev D, Reilly C, Nelsestuen G, Wendt C. “Plasma metabolites associated with acute exacerbations of chronic obstructive pulmonary disease”. American Society for Mass Spectrometry Conference, Minneapolis, MN, 2013.
45. Pragman A, Kim H, Reilly C, Wendt C, Isaacson RE. “The lung microbiome in moderate and severe chronic obstructive pulmonary disease”. The Aspen Lung Conference, Aspen, CO, 2013.
46. Reilly C “Deconvolving taxonomic contributions to group differences in microbiomic investigations”. International Conference on Integrative Biology, Las Vegas, NV, 2013.
47. Jones RS, Rasmussen K, Reilly C “Examining anti-biofilm therapies to control pathogenic oral bacteria in young children”, CTSI scholar poster session, University of Minnesota, MN, 2014.

48. Shang K, Reilly C “Nonparametric Bayesian analysis of the 2 sample problem with censoring”, Bayesian Young Investigators Meeting, Vienna, Austria, 2014.
49. Reilly C. “The use of microbiomics in clinical investigations: overview and some recent contributions”. Division of Epidemiology and Community Health, University of Minnesota, MN, 2015.
50. Reilly C “Deconvolving taxonomic contributions to group differences in microbiomic investigations with application to COPD”. Biostatistics Branch, NIAID, 2016.
51. Reilly C and Neaton J “Ongoing Ebola Research in Liberia”, University of Minnesota, Department of Infectious Diseases, Oct 2017.
52. Neaton J, Reilly C and Badio M “Building Biostatistics Infrastructure in West Africa”, International Conference on AIDS and STIs in Africa, Abidjan, Côte D’Ivoire, Dec 2017.
53. Reilly C “Ongoing Ebola Research in Liberia”, University of Minnesota, Global Health Day, April 2018.
54. Reilly C and Sherman B “A primer on statistical genetics”, Sequence of Webinars for INSIGHT members, Summer 2018.
55. Reilly C “A primer on statistical genetics”, INSIGHT Community Advisory Board, Seattle, WA, March 2019.
56. Reilly C “Statistical Considerations in PALM II”, PALM II Kick-off Meeting, Kinshasa, DRC, February, 2020.
57. Reilly C “Investigation of Causal Effects of Protein Biomarkers on CVD in Persons with HIV”, Conference on Retroviruses and Opportunistic Infections 2020, Boston, MA, given remotely, March 2020.
58. Reilly C “A clinical trial for rapid discovery of COVID-19 therapeutics in hospitalized patients”, SPH Community Research Day, December 9, 2020.
59. Reilly C “Platform trials for COVID-19 therapeutics and the TICO trial”, Division of Epidemiology and Community Health Research Seminar, March 5, 2021.

Current Research Contract and Grant Support

1. STRIVE (INSIGHT 018)
{PI: Cavan Reilly}
 - **40% support for Dr. Reilly. (April 2022-Present)**
 - Contract
 - STRIVE is an international network conducting trials of interventions for infectious disease emergencies. The network is currently supporting 2 randomized controlled trials of interventions for COVID-19 among inpatients, each with a sample size of 1500. STRIVE’s Statistical and Data Management Center is located at the University of Minnesota. The network consists for nine international Coordinating Centers located in Copenhagen, London, Sydney, Washington DC, Nashville, Minneapolis, Paris, and New York and 1 associated with the US VA. The network has over 300 clinical sites on six continents with many sites in LMICs.
2. ACTIV-3 (INSIGHT 014 and 016)
{PI: Cavan Reilly}

- **4% support for Dr. Reilly. (June 2020-Present)**
 - Contract
 - The International Network for Strategic Initiatives Global HIV Trials (INSIGHT), a NIAID-funded clinical trials network, has been selected by the Operation Warp Speed ACTIV nMab Master Protocol Steering Committee, Foundation for the National Institutes of Health, to lead development of therapeutic clinical trials focused on neutralizing monoclonal antibodies (nMAbs) in hospitalized patients with COVID-19. INSIGHT's Statistical and Data Management Center (SDMC) is located at the University of Minnesota. The network consists of four international Coordinating Centers (ICCs), located in Copenhagen, London, Sydney, and Washington, and over 200 clinical sites aligned with these ICCs.
3. Covid-19 Observational Study (INSIGHT 011)
 {PI: Cavan Reilly}
- **5% salary support for Dr. Reilly (April 2020-Present)**
 - Contract
 - This is an international, observational cohort study of adults with SARS-CoV-2 infections who have been assessed as not requiring hospitalization (i.e., outpatients) at the time of screening and enrollment. While a proportion of people with COVID-19 have sufficiently severe symptoms to require hospitalization at the time of initial symptom onset, in others the disease may remain mild, or symptoms may worsen a few days after initial presentation with relatively mild symptoms. There is an urgent need for understanding the progression of disease for individuals with SARS-CoV-2 infection who do not require immediate hospitalization.
4. OTAC (INSIGHT 012)
 {PI: Cavan Reilly}
- **8% support for Dr. Reilly. (June 2020-Present)**
 - Contract
 - This contract supports a multi-center RCT of a clinical trial of hyperimmune IVIG in outpatients at over 50 sites globally. The data coordinating center is located at the University of Minnesota and is supported by the INSIGHT network.
5. ITAC (INSIGHT 013)
 {PI: Cavan Reilly}
- **1% support for Dr. Reilly. (August 2023-Present)**
 - Contract
 - This contract supports a multi-center RCT of a clinical trial of hyperimmune IVIG in inpatients at over 50 sites globally. The data coordinating center is located at the University of Minnesota and is supported by the INSIGHT network.
6. START
 {M-PI: Birgit Grund and Cavan Reilly}
- **2% support for Dr. Reilly. (August 2023-Present)**
 - Contract
 - This contract supports ongoing work from the START trial which randomized HIV positive individuals to early versus deferred treatment. Analysis of the long-term follow-up data continues.

7. FLU (INSIGHT 003)
{PI: Cavan Reilly}
 - **4% support for Dr. Reilly. (August 2023-Present)**
 - Contract
 - This contract supports an ongoing global observational study of influenza conducted at over 50 sites since 2009.
8. The BLOODSAFE Data Coordinating Center
{PI: Cavan Reilly}
 - **20% salary support for Dr. Reilly (July 2020-Present)**
 - Cooperative Agreement
 - The goal of this project is to provide biostatistical leadership and data management infrastructure for the BLOODSAFE initiative, an NHLBI initiative which seeks to increase the supply of safe blood available for transfusion in Sub-Saharan Africa through the conduct of clinical trials.
9. PREVAIL I: Clinical research management for Ebola
{PI: Cavan Reilly}
 - **2% salary support for Dr. Reilly (December 2014-Present)**
 - Contract
 - This grant provides support for data management and logistics for a clinical trial of vaccines for Ebola conducted in Liberia.
10. PREVAIL III
{PI: Cavan Reilly}
 - **2% salary support for Dr. Reilly (February 2015-Present)**
 - Contract
 - This grant provides support for data management and logistics for an observational study of Ebola survivors conducted in Liberia.
11. PREVAIL VI
{PI: Cavan Reilly}
 - **1% support for Dr. Reilly. (August 2016-Present)**
 - Contract
 - This contract provides statistical support for a genome wide association study of host factors that impact the course of Ebola virus disease.
12. PREVAIL VIII
{PI: Cavan Reilly}
 - **2% support for Dr. Reilly. (February 2018-Present)**
 - Contract
 - This contract provides statistical support for a natural history study of persons living with HIV in Liberia.
13. PREVAIL XI: COVID-19 Data Management Support Liberia Observational Study
{PI: Cavan Reilly}

- **2% salary support for Dr. Reilly (July 2020-Present)**
 - Contract
 - Design and conduct a cohort study of 1,500 Liberians who test positive for SAR-CoV-2. These individuals will be followed for up to 3 years to understand the progression and sequelae of COVID-19 in a Sub-Saharan context.
14. The effect of inflammation and damage to the lymph node structures on protective immunity
 {PI: Timothy Schacker}
- **2% salary support for Dr. Reilly (February 2019-January 2024)**
 - Grant
 - This proposal will examine vaccine effectiveness as a function of lymph node health.

Past Research Contract and Grant Support

1. NIH salary support from the Great Lakes Center for AIDS Research (PIs: Drs. Ashley Haase and Steve Wolinsky: Northwestern University), 50% effort, co-PI, August 2000–December 2002, 26.5% January 2003–August 2003.
2. RA salary and computing support from a University of Minnesota Grant-in-Aid of Research, Artistry, and Scholarship (PI: Cavan Reilly), Filtering for non-Gaussian observations of non-linear systems of stochastic differential equations, August 2001–August 2002.
3. CFAR Development funds, from the NIH, 74.5% effort, (PI: Cavan Reilly), June 2003–August 2003.
4. NIH salary support from the Genetics of Asthma Project (PI: Malcolm Blumenthal), 15% effort, co-PI, August 2003–May 2007.
5. NIH salary support from the Lymphoid Architecture Project (PI: Timothy Schacker), 10% effort, co-PI, August 2003–December 2007.
6. Statistical Methods in Cancer Control Epidemiology, (PI: Brad Carlin), 10% effort, co-PI, August 2003–July 2007.
7. NIH salary support from the Pathogenesis of HIV-Induced Immunity grant (PI: Ashley Haase), 10% effort, co-PI, April 2004–February 2009.
8. NIH salary support from the Genomic analysis of HIV-1 grant (PI: Ashley Haase), 10% effort, co-PI, Dec. 15, 2003–November 2008.
9. NIH salary support from the Antifibrotic Drug Discovery in Lung Disease grant (PI: Peter Bitterman), 5% effort, co-PI, April 1, 2004–February 2008.
10. NIH salary support from the Regulation of T lymphocyte mRNA grant (PI: Paul Bohjanen), 10% effort, co-PI, September 2002–May 2007.
11. Minnesota partnership funds from the Non-exercise induced thermogenesis grant (PI: Kathy Kotz), 10% effort, co-PI, July 2003–June 2005.
12. Topical Microbicide Against SIV and Chlamydia (PI: Dr. Ashley Haase), 5% effort, co-PI, September 2008–September 2010.
13. Protein Biomarkers in Lung Allograft Function (PI: Dr. Chris Wendt), 10% effort, co-PI, September 2008–September 2013.

14. Bronchoalveolar Lavage Cell Biomarkers of Lung Rejection (PI: Dr. Marshall Hertz), 10% effort, co-PI, September 2008–September 2010.
15. CTSI Education Pilot (PI: Dr. Terri Laguna), 5% effort, co-PI, January 2013–December 2014.
16. CTSI Education Pilot (PI: Dr. Robert Jones), 5% effort, co-PI, January 2013–December 2014.
17. A Compartmental Analysis of HIV Reservoirs and Immune Reconstitution (Program Director: Dr. Timothy Schacker PI of Biostatistics Core: Dr. Reilly), 38% effort, September 2008–August 2014.
18. Antifibrotic Therapy to Improve Lymph Node Architecture in SIV (PI: Dr. Timothy Schacker), 3.4% effort, co-PI, September 2010–August 2015.
19. Microarray Studies to Discover the Mechanisms of the delta-Nef SIV vaccine (PI: Dr. Ashley Haase), 10% effort, September 2010–August 2015.
20. Decay Kinetics of SIV with the compound Raltegravir (PI: Dr. Ashley Haase), 2.5% effort, co-PI, September 2011–August 2013.
21. Interactions Between Oral Biofilms (PI: Joel Rudney), 10% effort, co-PI, September 2011–August 2016.
22. Urinary Biomarkers in Biopsy Defined Early Nephropathy in Types 1 and 2 Diabetes (PI: Dr. Mark Mauer), 10% effort, co-PI, September 2009–October 2015.
23. Transcriptomics in the pariparturient Holstein (PI: Dr. Brian Crooker), 10% effort, co-PI, September 2014–October 2017.
24. Summer Institute for Biostatistics (PI: Dr. Cavan Reilly), 10% effort, April 2016–December 2018.
25. Clinical Research Training in Liberia (PI: Dr. Cavan Reilly), 3% effort, September 2017.
26. Calprotectin in oral innate immunity (PI: Dr. Mark Herzberg), 5% effort, November 2016–November 2019.
27. Reversing tissue fibrosis (PI: Timothy Schacker), 10% effort, February 2013–January 2018.
28. Data Management Support for the Nun Study (PI: Cavan Reilly), 10% effort, October 2019–October 2021.
29. Data Analysis Support for CLIMB (PI: Cavan Reilly), 1% effort, December 2019–June 2020.
30. Assessment of gene expression profiles related to hepatocellular carcinoma in HCV (PI: Jose Debes), 5% effort, June 2018–June 2020.
31. Age-related macular degeneration mitochondria and the CFH genotype (PI: Deborah Ferring-ton), 5% effort, December 2016–July 2020.
32. Interplay between lipophagy and mitophagy in skeletal muscle aging (PI: Edgar Arriaga), 5% effort, July 2016–March 2021.
33. DMID COVID-19 ACTT Task Order Award (PI: Jim Neaton), 5% effort, March 2020–March 2021.
34. PREVAIL VI (PI: Jim Neaton), 35% effort, July 2016–July 2018.

35. PREVAIL VII (PI: Jim Neaton), 25% effort, July 2017–July 2020.

Teaching

Courses I have taught (at the University of Minnesota unless otherwise noted) include:

1. Introduction to Statistics (Columbia University, 1998–2000)
2. Biostatistics (2001–2002)
3. Statistics for Human Genetics and Molecular Biology (2003–2019)
4. Modern Nonparametrics (2003)
5. Bayesian Data Analysis and Decision Theory (2005–2011)
6. Advanced Statistics for Human Genetics (2014–2018)
7. Advanced Inference (2015)
8. Linear Models (2020–2022)

In addition I have been the thesis advisor for 18 MS theses and 6 PhD dissertations. I have been the project advisor for 1 completed MPH. I have served on the PhD examining committee of 31 students (12 in Biostatistics, 4 in Statistics, 3 in Computer Science with the remainder being for students in various health science areas, such as Epidemiology, Microbiology, Animal Science and Pharmacy).

I have also been actively involved with mentoring programs in the School of Medicine and the School of Public Health: I have been a mentor for 4 assistant professors on awarded training grants and I consult for an assistant professor on her awarded training grant.

PhD Advising

1. Yan Zhang, “Topics in Low Level Analysis of Microarrays”, September, 2006.
2. Xiaoyan Li, “Statistical Skeleton Estimation”, April, 2007.
3. Meijuan Li, “Statistical Methods for Genetics and Genomics Studies”, December, 2008.
4. Xiaoxiao Kong, “Statistical Methods in Genome Sequence Analysis”, September, 2011.
5. Kan Shang, “Bayesian methods for high dimensional longitudinal data analysis”, December, 2016.
6. Clara Drew, “Analyzing latent variables with observational data and applications in infectious disease”, September, 2022.

Service

I serve as one of the cochairs of the new Data Science MS program at the University of Minnesota.

I have served on the following study sections (mix of grants, cooperative agreements and contracts):

1. NIH Special Emphasis Panel: HIV Clinical Trial Planning Grant Program
2. NIH Special Emphasis Panel: Sustained Release for Antiretroviral Treatment or Prevention of HIV Infection

3. HIV Special Emphasis Panel: Centers for AIDS Research
4. NIESH/NIH Special Emphasis Panel: Centers for Oceans and Public Health
5. NIH Clinical and Integrative Cardiovascular Sciences: ad hoc reviewer
6. NIH Clinical Cardiovascular Sciences: ad hoc reviewer
7. NIH Infectious Disease, Reproductive Health, Asthma and Pulmonary Health: ad hoc reviewer
8. Numerous clinical trial implementation grants for the NIH.

I have also provided written reviews of grants for the NSF and the Natural Sciences and Engineering Research Council of Canada.

I have also reviewed grants for multiple local grant sources sponsored by the AHC and the graduate school.

I have reviewed articles for the following journals: *The Journal of the American Statistical Association*, *Bioinformatics*, *Nature*, *Nucleic Acids Research*, *Statistics in Medicine*, *PLoS Computational Biology*, *PLoS Genetics*, *Molecular Human Genetics*, *Nature Medicine*, *Clinical Trials* and *Genetics in Medicine*.

I am a member of the editorial board for the BMC journals in the capacity as a statistical reviewer.

I am also a member of the editorial board of a new journal called “Statistical Communications in Infectious Diseases”.

I currently chair 1 DSMB and serve on 4 other DSMBs.