

FY21 Publications: Department of Biostatistics	Impact Factor
1. Seirup, M., Chu, L. F., Sengupta, S., Leng, N., Browder, H., Kapadia, K., ... & Bacher, R. (2020). Reproducibility across single-cell RNA-seq protocols for spatial ordering analysis. <i>PLoS one</i> , 15(9), e0239711. Contribution: Lead author- Wrote manuscript and directed research. Assistance by two mentored UF undergraduates (Hadley Browder and Kevin Kapadia)	3.04
2. Japp, A. S., Meng, W., Rosenfeld, A. M., Perry, D. J., Thirawatananond, P., Bacher, R. L., ... & HPAP Consortium. (2021). TCR+/BCR+ dual-expressing cells and their associated public BCR clonotype are not enriched in type 1 diabetes. <i>Cell</i> , 184(3), 827-839. Contribution: Performed analysis of cell distribution and overall statistical guidance.	38.64
3. Williams, M. D., Bacher, R., Perry, D. J., Grace, C. R., McGrail, K. M., Posgai, A. L., ... & Wasserfall, C. H. (2021). Genetic Composition and Autoantibody Titers Model the Probability of Detecting C-Peptide Following Type 1 Diabetes Diagnosis. <i>Diabetes</i> , 70(4), 932-943. Contribution: Lead statistician, conducted all analyses.	7.72
4. Ross, J. J., Wasserfall, C. H., Bacher, R., Perry, D. J., McGrail, K., Posgai, A. L., ... & Atkinson, M. A. (2021). Exocrine Pancreatic Enzymes Are a Serological Biomarker for Type 1 Diabetes Staging and Pancreas Size. <i>Diabetes</i> , 70(4), 944-954. Contribution: Lead statistician, conducted all analyses.	7.72
5. Darden, D. B., Bacher, R., Brusko, M. A., Knight, P., Hawkins, R. B., Cox, M. C., ... & Efron, P. A. (2021). Single cell RNA-SEQ of human myeloid derived suppressor cells in late sepsis reveals multiple subsets with unique transcriptional responses: a pilot study. <i>Shock (Augusta, Ga.)</i> , 55(5), 587. Contribution: Lead statistician, conducted all analyses.	2.96
6. Streeter, KA, Sunshine, MD, Brant, JO, Sandoval, AGW, Maden, M, Fuller, DD. Molecular and histologic outcomes following spinal cord injury in spiny mice, <i>Acomys cahirinus</i> . <i>J Comp Neurol</i> . 2020; 528: 1535– 1547. https://doi.org/10.1002/cne.24836	2.80
7. Murray, K.O., Brant, J.O., Iwaniec, J.D., Sheikh, L.H., de Carvalho, L., Garcia, C.K., Robinson, G.P., Alzahrani, J.M., Riva, A., Laitano, O., Kladde, M.P. and Clanton, T.L. (2021), Exertional heat stroke leads to concurrent long-term epigenetic memory, immunosuppression and altered heat shock response in female mice. <i>J Physiol</i> , 599: 119-141. https://doi.org/10.1113/JP280518	4.55
8. Shannin J, Brumback BA (2021). "Disagreement Concerning Effect-Measure Modification." arXiv:2105.07285	---
9. Wei YJJ, Schmidt S, Chen C, Fillingim RB, Reid MC, DeKosky, Solberg L, Pahor M, Brumback B, Winterstein AG (2021). "Quality of opioid prescribing in older adults with or without Alzheimer disease and related dementia." <i>Alzheimer's Research & Therapy</i> , 13, 78 https://doi.org/10.1186/s13195-021-00818-3 .	---
10. Jeon N, Park H, Segal R, Brumback B, Winterstein AG (2021). "Non-steroidal anti-inflammatory drug-associated kidney injury: does short-term NSAID use pose a risk in hospitalized patients?" <i>Eur J Clin Pharmacol</i> https://doi.org/10.1007/s00228-021-03121-0 .	---
11. Fisk RJ, Richards VL, Leeman RF, Brumback B, Cook C, Cook RL (2021). "Negative Consequences of Alcohol Use Among People Living with HIV." <i>Substance Use & Misuse</i> , 56(6): 871-878.	---
12. Mankowski RT, Anton SD, Ghita GL, Brumback B, Darden DB, Bihorac A, Leeuwenburgh C, Moldawer LL, Efron PA, Brakenridge SC, Moore FA (2021). "Older Adults Demonstrate Biomarker Evidence of the Persistent Inflammation, Immunosuppression, and Catabolism Syndrome (PICS) After Sepsis." <i>Journals of Gerontology: Medical Sciences</i> , in press.	---
13. Richards VL, Zhou Z, Wang Y, Vaddiparti K, Brumback B, Cook RL (2021). "Impact of Reduction in Drinking versus Complete Cessation on the Severity and Type of Alcohol-Related Problems in Women Living with HIV." <i>Substance Use & Misuse</i> , 56(5): 704-710.	---
14. Schumacher JR, Lutz BJ, Hall AG, Harman JS, Turner K, Brumback BA, Hendry P, Carden DL (2021). "Impact of an Emergency Department-to-Home Transitional Care Intervention on Health Service Use in Medicare Beneficiaries: A Mixed Methods Study." <i>Medical Care</i> , 59(1): 29-37.	---

15. Richards VL, Berey BL, Lu H, Stetten NE, Fisk RJ, Wang Y, Brumback B, Cook RL (2020). "Perceived Positive Consequences are Associated with Unhealthy Alcohol Use Among Persons Living with HIV." <i>The Canadian Journal of Addiction</i> , 11(4): 23-31.	---
16. Loftus TJ, Alfaro ME, Anderson TN, Murphy TW, Zayko O, Davis JP, Hothem ZA, Darden DB, Patel RP, Whittet W, McGough EK, Bihorac A, Croft CA, Rosenthal MD, Smith RS, Vanzant EL, Moore FA, Brakenridge SC, Ghita GL, Brumback BA, Mohr AM, Efron PA (2020). "Audiovisual Modules to Enhance Informed Consent in the ICU: A Pilot Study." <i>Critical Care Explorations</i> , 2(12): e0278.	---
17. Brakenridge SC, Wang Z, Cox M, Raymond S, Hawkins R, Darden D, Ghita G, Brumback B, Cuschieri J, Maier RV, Moore FA, Mohr AM, Efron PA, Moldawer LL (2021). "Distinct immunologic endotypes are associated with clinical trajectory after severe blunt trauma and hemorrhagic shock." <i>Journal of Trauma and Acute Care Surgery</i> , 90(2):257-267.	---
18. Richards VL, Sajdeya R, Villalba K, Wang Y, Bryant V, Brumback B, Bryant K, Hahn JA, Cook RL (2021). "Secondary Analysis of a Randomized Clinical Trial of Naltrexone Among Women Living with HIV: Correlations Between Reductions in Self-Reported Alcohol Use and Changes in Phosphatidyl ethanol." <i>Alcoholism: Clinical & Experimental Research</i> , 45(1): 174-180	---
19. Efron PA, Darden DB, Wang Z, Nacionales DC, Lopez MC, Hawkins RB, Cox MC, Rincon JC, Ungaro R, Dirain ML, Ghita GL, Chen T, Billiar TR, Delano MJ, Leeuwenburgh C, Bihorac A, Brakenridge SC, Moore FA, Mohr AM, Tompkins RG, Brumback BA, Baker HV, Upchurch GR, Moldawer LL (2020). "Transcriptomic responses from improved murine sepsis models can better mimic human surgical sepsis." <i>The Journal of the Federation of American Societies for Experimental Biology</i> , 35(2): 1-11.	---
20. Algarin AB, Li Y, Cohen RA, Cook CL, Brumback B, Cook RL, Ibanez GE (2021). "HIV-related stigma and life goals among people living with HIV (PLWH) in Florida." <i>Quality of Life Research</i> , 30: 781-789.	---
21. Paige SR, Salloum RG, Krieger JL, Williams M, Xue W, Brumback B (2020). "Promoting Clinical Conversations about Lung Cancer Screening: Exploring the Role of Perceived Online Social Support." <i>Journal of Health Communication</i> , 25(8): 650-659.	---
22. Ozragat-Baslanti T, Loftus T, Mohandas R, Wu Q, Brakenridge S, Brumback B, Efron P, Anton S, Moore FA, Moldawer LL, Segal MS, Bihorac A (2020). "Clinical Trajectories of Acute Kidney Injury in Surgical Sepsis: A Prospective Observational Study." <i>Annals of Surgery</i> , in press.	---
23. Choi Y, Meissner HC, Hampp C, Park H, Brumback B, Winterstein AG (2021). "Calibration of Chronic Lung Disease Severity as a Risk Factor for Respiratory Syncytial Virus Hospitalization." <i>Journal of the Pediatric Infectious Diseases Society</i> , 10(3): 317-325.	---
24. Zhu Y, Hampp C, Wang X, Albogami Y, Wei YJJ, Brumback BA, Roussos-Ross D, Winterstein AG (2020). "Validation of algorithms to estimate gestational age at birth in the Medicaid Analytic extract – Quantifying the misclassification of maternal drug exposure during pregnancy." <i>Pharmacoepidemiology & Drug Safety</i> , 29(11): 1414-1422.	---
25. Anyaso-Samuel, S., Sachdeva, A., Guha, S., and Datta, S., Metagenomic geolocation prediction using an adaptive ensemble classifier. <i>Frontiers in Genetics</i> , doi: 10.3389/fgene.2021.642282 (2021).	3.79
26. Williamson, J. B., Lamb, D. G., Porges, E. C., Bottari, S., Woods, A. J., Datta, S., Langer, K. and Cohen, R. A. Cerebral metabolite concentrations are associated with cortical and subcortical volumes and cognition in older adults. <i>Frontiers in Aging Neuroscience</i> doi:10.3389/fnagi.2020.587104 (2021)	4.50
27. Kang, T., Gaskins, J., Levy, S., and Datta, S. A longitudinal Bayesian mixed effects model with hurdle Conway-Maxwell-Poisson distribution. <i>Statistics in Medicine</i> , 40, 1336-1356 (2021)	1.78
28. Kang, T., Levy, S., and Datta, S. Analyzing longitudinal clustered count data with zero inflation: marginal modeling using the Conway-Maxwell-Poisson distribution. <i>Biometrical Journal</i> , 63, 761-786 (2021).	1.42
29. Boissoneault, C., Grimes, T., Rose, D. Waters, M., Khanna, A., Datta, S., and Daly, J. Innovative long-Dose neurorehabilitation for balance and mobility in chronic stroke: A preliminary case series. <i>Brain Sciences</i> , 20, 555 (2020).	3.33

30. Wu Y, Datta S, Little BB, Kong M. Magnesium dietary intake and physical activity in Type 2 diabetes by gender in White, African American, and Mexican American: NHANES 2011-2014. <i>Endocrinol Diabetes Metab.</i> 2020;4(1):e00203. Published 2020 Nov 20. doi:10.1002/edm2.203	---
31. Cheng, T. D., Omilian, A. R., Yao, S., Sanchez, P. V., Polk, L. Z., Zhang, W., Datta, S., Bshara, W., Ondracek, R. P., Davis, W., Liu, S., Hong, C. C., Bandera, E. V., Khoury, T., & Ambrosone, C. B. (2020). Body fatness and mTOR pathway activation of breast cancer in the Women's Circle of Health Study. <i>NPI breast cancer</i> , 6, 45. https://doi.org/10.1038/s41523-020-00187-4	6.00
32. Sekula, M., Gaskins, J., Datta, S. (2020) A sparse Bayesian factor model for the construction of gene co-expression networks from single-cell RNA sequencing count data <i>BMC Bioinformatics</i> (2020) 21:361	3.24
33. Fishe, J., N., Hendry, P., Brailsford, J., Salloum, R., G., Vogel, B., Finley, E., Palmer, S., Datta, S., Handeles, L., Blake, K. (2020) Early administration of steroids in the ambulance setting: Protocol for a type I hybrid effectiveness-implementation trial with a stepped wedge design (2000). <i>Contemporary Clinical Trials</i> Volume 97, October 2020, 106141	1.83
34. Carek PJ, Mims L, Kirkpatrick S, et al. Does Community- or University-Based Residency Sponsorship Affect Graduate Perceived Preparation or Performance? <i>J Grad Med Educ.</i> 2020;12(5):583-590. doi:10.4300/JGME-D-19-00907.1	1.06
35. Fischer, J., Song, Y. S., Yosef, N., di Iulio, J., Churchman, L. S., & Choder, M. (2020). The yeast exoribonuclease Xrn1 and associated factors modulate RNA polymerase II processivity in 5' and 3' gene regions. <i>Journal of Biological Chemistry</i> , 295(33), 11435-11454.	4.24
36. Richard, S., Gross, L., Fischer, J., Bendalak, K., Ziv, T., Urim, S., & Choder, M. (2021). Numerous Post-translational Modifications of RNA Polymerase II Subunit Rpb4/7 Link Transcription to Post-transcriptional Mechanisms. <i>Cell Reports</i> , 34(2), 108578.	8.11
37. Anyaso-Samuel, S., Sachdeva, A., Guha, S., & Datta, S. (2021). Metagenomic Geolocation Prediction Using an Adaptive Ensemble Classifier. <i>Frontiers in genetics</i> , 12.	3.79
38. Waddell, A., Mahmud, I., Ding, H., Huo, Z., & Liao, D. (2021). Pharmacological Inhibition of CBP/p300 Blocks Estrogen Receptor Alpha (ER α) Function through Suppressing Enhancer H3K27 Acetylation in Luminal Breast Cancer. <i>Cancers</i> , 13(11), 2799.	6.13
39. Drashansky, T. T., Helm, E. Y., Curkovic, N., Cooper, J., Cheng, P., Chen, X., Gautam, N., Meng, L., ... Huo, Z., Zhou L, & Avram, D. (2021). BCL11B is positioned upstream of PLZF and ROR γ t to control thymic development of mucosal-associated invariant T cells and MAIT17 program. <i>Iscience</i> , 24(4), 102307.	4.48
40. Huo, Z., Rana, B. K., Elman, J. A., Dong, R., Engelman, C. D., Johnson, S. C., ... & Zhao, J. (2020). Metabolic Profiling of Cognitive Aging in Midlife. <i>Frontiers in aging neuroscience</i> , 12, 397.	4.50
41. Logan, R. W., Ozburn, A. R., Arey, R. N., ..., Huo, Z., ..., & McClung, C. A. (2020). Valproate reverses mania-like behaviors in mice via preferential targeting of HDAC2. <i>Molecular Psychiatry</i> , 1-19.	12.38
42. Saner, N.J., Lee, M.J., Kuang, J., Pitchford, N.W., Roach, G.D., Garnham, A., Genders, A.J., Stokes, T., Schroder, E.A., Huo, Z. and Esser, K.A., ... & Bartlett, J. D. (2021). Exercise mitigates sleep-loss-induced changes in glucose tolerance, mitochondrial function, sarcoplasmic protein synthesis, and diurnal rhythms. <i>Molecular metabolism</i> , 43, 101110.	6.45

43. Collins, J. M., Huo, Z., & Wang, D. (2021). ESR1 ChIP-Seq Identifies Distinct Ligand-Free ESR1 Genomic Binding Sites in Human Hepatocytes and Liver Tissue. <i>International journal of molecular sciences</i> , 22(3), 1461.	4.56
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46. Montesino-Goicolea, S., Valdes-Hernandez, P. A., Hoyos, L., Woods, A. J., Cohen, R., Huo, Z., ... & Cruz-Almeida, Y. (2020). Cortical thickness mediates the association between self-reported pain and sleep quality in community-dwelling older adults. <i>Journal of Pain Research</i> , 13, 2389.	2.58
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51. Angiolillo A, Schore RJ, Kairalla JA, Devidas M, Rabin KR, Zweidler-McKay P, Borowitz MJ, Wood B, Carroll AJ, Heerema NA, Relling MV, Hitzler J, Lane AR, Maloney KW, Wang C, Bassal M, Carroll WL, Winick NJ, Raetz EA, Loh ML, Hunger SP. Excellent Outcomes with Reduced Frequency of Vincristine and Dexamethasone Pulses in Standard Risk B-Lymphoblastic Leukemia: Results from Children's Oncology Group (COG) AALL0932 (2021). <i>Journal of Clinical Oncology</i> , 39(13), 1437-1447. PMID: 33411585	44.54
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53. Gu, T., Zhao, X., Barbazuk, W. B., & Lee, J. H. (2021). miTAR: a hybrid deep learning-based approach for predicting miRNA targets. <i>BMC bioinformatics</i> , 22(1), 1-16.	3.51
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58. Salloum, R. G., LeLaurin, J. H., Lee, J. H., Lafata, J. E., Williams, M., Wang, Y., ... & Thrasher, J. F. (2021). Primary Care Physician Perspectives on Recommending E-cigarettes to Smokers: a Best-Worst Discrete Choice Experiment. <i>Journal of General Internal Medicine</i> , 1-8.	4.60
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61. Alpert, J. M., Wang, S., Bylund, C. L., Markham, M. J., Bjarnadottir, R. I., Lee, J. H., ... & Salloum, R. G. (2020). Improving secure messaging: A framework for support, partnership & information-giving communicating electronically (SPICE). <i>Patient Education and Counseling</i> .	2.61
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63. Salloum R, Lee J, Lee J-H, Boeckmann M, Xing C, Warren GW. Smoking Cessation Methods and Outcomes among Cancer Survivors. <i>American Journal of Preventive Medicine</i> . 2020, 59:615-617.	4.42
64. Journal: <i>Cancer</i> ; Article title: Randomized Trial of a Hospice Video Educational Tool for Patients with Advanced Cancer and Their Caregivers	5.74
65. Journal: <i>Environmental Research</i> ; Article title: Maternal gestational mercury exposure in relation to cord blood T cell alterations and placental gene expression signatures	5.03
66. Journal: <i>Journal of Pain</i> ; Article title: Biopsychosocial Influence on Shoulder Pain: Analysis of Post-Operative Pain, Physical Impairment, and Emotional Recovery States	4.62
67. Halloran ME, Gilbert P, Longini IM. Designing a Study of Correlates of Risk for Ebola Vaccination. <i>American Journal of Epidemiology</i> . kwaa001, https://doi.org/10.1093/aje/kwaa001 (2020). https://doi.org/10.1093/aje/kwaa001	4.53
68. Dean NE, Halloran ME, Longini IM. Temporal confounding in the test negative design. <i>American Journal of Epidemiology</i> . (2020) https://doi.org/10.1093/aje/kwaa084 .	4.53
69. Zhang J, Litvinova M, Wang W, Wang Y, Deng X, Chen X, Li M, Zheng W, Yi L, Chen X, Wu Q, Liang Y, Wang X, Yang J, Sun K, Longini IM, Halloran ME, Wu P, Cowling BJ, Merler S, Viboud C, Vespignani A, Ajelli M, Yu H. Evolving epidemiology of novel coronavirus diseases 2019 and interruption of local transmission outside Hubei Province in China: A descriptive and modeling study. <i>Lancet Infectious Diseases</i> (2020) https://doi.org/10.1016/S1473-3099(20)30230-9	24.45

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72. Lee EC, Chao DL, Lemaitre JC, Matrajt L, Pasetto D, Perez-Saez J, Finger F, Rinaldo A, Sugimoto JD, Halloran ME, Longini IM, Ternier R, Vissieres K, Azman AS, Lessler J, Ivers LC. Achieving coordinated national immunity and cholera elimination in Haiti through vaccination: a modelling study. <i>Lancet Glob Health</i> . DOI: https://doi.org/10.1016/S2214-109X(20)30310-7 (2020)	21.60
73. Krause P, Henao-Restrepo AM, Longini I, Peto R, Fleming TR. COVID vaccine trials should prove worthwhile efficacy, not just some efficacy. <i>Lancet</i> . DOI: https://doi.org/10.1016/S0140-6736(20)31821-3 (2020)	60.39
74. Krause P, Fleming TR, Longini I, Peto R, et al. COVID variants and vaccines: what needs to be done? <i>New England Journal of Medicine</i> (2021). DOI: 10.1056/NEJMSr2105280	74.70
75. Dean NE, Pastore y Piontti A, Madewell Z, Cummings D, Hitchings MD, Joshi K, Kahn R, Vespignani A, Halloran ME, Longini IM. Ensemble Forecast Modeling for the Design of COVID-19 Vaccine Efficacy Trials. <i>Vaccine</i> 38, 7213-7216 (2020). doi: 10.1016/j.vaccine.2020.09.031. PMID: PMC7492005	3.14
76. Manrique-Saide P1, Dean NE, Halloran ME, Longini IM, Collins M, WallerLA, Gomez-Dantes H, Lenhart A, Hladish TJ, Che-Mendoza A, Kirstein OD, Romer Y, Correa-Morales F, Palacio-Vargas J, Mendez-Vales R, Pérez PG, Pavia-Ruz N, Ayora-Talavera1 G, Vazquez-Prokopec GM. The TIRS trial: protocol for a cluster randomized controlled trial assessing the efficacy of preventive targeted indoor residual spraying to reduce Aedes-borne viral illnesses in Merida, Mexico. <i>Trials</i> 21:839 (2020). https://doi.org/10.1186/s13063-020-04780-7 . PMID: PMC7542575	1.88
77. Madewell CJ, Yang Y, Longini IM, Halloran ME, Dean NE. Household transmission of SARS-CoV-2: a systematic review and meta-analysis of secondary attack rate. <i>JAMA Network Open</i> 2020;3(12):e2031756. doi:10.1001/jamanetworkopen.2020.31756. PMID: PMC7737089	5.03
78. Krause P, Fleming TR, Longini I, Peto R, et al. Placebo-controlled trials of Covid-19 vaccines: Why we still need them. <i>New England Journal of Medicine</i> . (2021) 384:e2 DOI: 10.1056/NEJMp2033538 PMID: 33264543	74.70
79. Mistry D, Litvinova M, Pastore y Piontti A, Chinazzi M, Fumanelli L, Gomes MFC, Haque S, Liu Q-H, Mu K, Xiong X, Halloran ME, Longini IM, Merler S, Ajelli M, Vespignani A. Inferring high-resolution human mixing patterns for disease modeling. <i>Nature Communications</i> 12, 323 (2021) https://doi.org/10.1038/s41467-020-20544-y . PMID: PMC7803761	12.12
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