

1. Alshaer MH, Maranchick N, Bai C, Maguigan KL, Shoulders B, Felton TW, Mathew SK, Mardini MT, Peloquin CA. Using Machine Learning To Define the Impact of Beta-Lactam Early and Cumulative Target Attainment on Outcomes in Intensive Care Unit Patients with Hospital-Acquired and Ventilator-Associated Pneumonia. *Antimicrobial agents and chemotherapy* 2022:e005632210.1128/aac.00563-22
2. Apple CG, Kelly LS, Kannan KB, Ungaro RF, Moore FA, Brakenridge SC, Moldawer LL, Efron PA, Mohr AM. Ineffective Erythropoietin Response to Anemia in Sepsis. *Surgical infections* 2022;23:142-9.PMC889298610.1089 sur.2021.152
3. Aroke EN, Jackson P, Meng L, Huo Z, Overstreet DS, Penn TM, Quinn TL, Cruz-Almeida Y, Goodin BR. Differential DNA methylation in Black and White individuals with chronic low back pain enrich different genomic pathways. *Neurobiology of pain (Cambridge, Mass)* 2022;11:100086.PMC888556310.1016/j.ynpai.2022.100086
4. Bai C, Wanigatunga AA, Saldana S, Casanova R, Manini TM, Mardini MT. Are Machine Learning Models on Wrist Accelerometry Robust against Differences in Physical Performance among Older Adults? *Sensors (Basel, Switzerland)* 2022;22.PMC903258910.3390/s22083061
5. Barnard AM, Lott DJ, Batra A, Triplett WT, Willcocks RJ, Forbes SC, Rooney WD, Daniels MJ, Smith BK, Vandenborne K, Walter GA. Characterizing Expiratory Respiratory Muscle Degeneration in Duchenne Muscular Dystrophy Using MRI. *Chest* 2022;161:753-63.PMC916097510.1016/j.chest.2021.08.078
6. Batra A, Barnard AM, Lott DJ, Willcocks RJ, Forbes SC, Chakraborty S, Daniels MJ, Arbogast J, Triplett W, Henricson EK, Dayan JG, Schmalfluss C, Sweeney L, Byrne BJ, McDonald CM, Vandenborne K, Walter GA. Longitudinal changes in cardiac function in Duchenne muscular dystrophy population as measured by magnetic resonance imaging. *BMC cardiovascular disorders* 2022;22:260.PMC918598710.1186/s12872-022-02688-5
7. Bernabei R, Landi F, Calvani R, Cesari M, Del Signore S, Anker SD, Bejuit R, Bordes P, Cherubini A, Cruz-Jentoft AJ, Di Bari M, Friede T, Gorostiaga Ayestarán C, Goyeau H, Jónsson PV, Kashiwa M, Lattanzio F, Maggio M, Mariotti L, Miller RR, Rodriguez-Mañas L, Roller-Wirnsberger R, Rýznarová I, Scholpp J, Schols A, Sieber CC, Sinclair AJ, Skalska A, Strandberg T, Tchalla A, Topinková E, Tosato M, Vellas B, von Haehling S, Pahor M, Roubenoff R, Marzetti E. Multicomponent intervention to prevent mobility disability in frail older adults: randomised controlled trial (SPRINTT project). *BMJ (Clinical research ed)* 2022;377:e068788.PMC9092831 .10.1136/bmj-2021-068788
8. Bryant AJ, Ebrahimi E, Nguyen A, Wolff CA, Gumz ML, Liu AC, Esser KA. A wrinkle in time: circadian biology in pulmonary vascular health and disease. *American journal of physiology Lung cellular and molecular physiology* 2022;322:l84-l101.PMC875996710.1152/ajplung.00037.2021
9. Carmichael ED, Apple CG, Kannan KB, Gardener A, Anton S, Efron PA, Moldawer LL, Moore FA, Brakenridge SC, Mohr AM. Chronic Critical Illness in Patients With Sepsis is Associated With Persistent Anemia, Inflammation, and Impaired Functional Outcomes. *The American surgeon* 2022:3134822110425210.1177/00031348221104252
10. Carraro U, Bittmann F, Ivanova E, Jónsson H, Jr., Kern H, Leeuwenburgh C, Mayr W, Scalabrin M, Schaefer L, Smeriglio P, Zampieri S. Post-meeting report of the 2022 On-site Padua Days on Muscle and Mobility Medicine, March 30 - April 3, 2022, Padua, Italy. *European journal of translational myology* 202210.4081/ejtm.2022.10521
11. Crowley S, Mickle AM, Wiggins ME, Cardoso J, Lai S, Tanner JJ, Staud R, Fillingim RB, Price CC, Sibille KT. Relationships Between Cognitive Screening Composite Scores and Pain Intensity and Pain Disability in Adults With/At Risk for Knee Osteoarthritis. *The Clinical journal of pain* 2022;38:470-5.PMC921087010.1097/ajp.0000000000001042
12. Dong X, Bacher R. Data-driven assessment of dimension reduction quality for single-cell omics data. *Patterns (New York, NY)* 2022;3:100465.PMC905890210.1016/j.patter.2022.100465
13. Duggan MR, Lu A, Foster TC, Wimmer M, Parikh V. Exosomes in Age-Related Cognitive Decline: Mechanistic Insights and Improving Outcomes. *Frontiers in aging neuroscience* 2022;14:834775.PMC892186210.3389 fngi.2022.834775
14. Efron PA, Darden DB, Li EC, Munley J, Kelly L, Fenner B, Nacionales DC, Ungaro RF, Dirain ML, Rincon J, Mankowski RT, Leeuwenburgh C, Moore FA, Brakenridge SC, Foster TC, Laitano O, Casadesus G, Moldawer LL, Mohr AM, Thomas RM. SEX DIFFERENCES ASSOCIATE WITH LATE MICROBIOME ALTERATIONS AFTER MURINE SURGICAL SEPSIS. *The journal of trauma and acute care surgery* 202210.1097/ta.0000000000003599
15. Foster TC. Animal Models for Studies of Alcohol effects on the Trajectory of Age-Related Cognitive Decline. *Alcohol (Fayetteville, NY)* 202210.1016/j.alcohol.2022.04.005
16. Fullwood D, Means S, Paxton R, Wells B, Riley JL, 3rd, Stickley Z, Tucker C, You L, Elie M, Thomas C, Anton S,

- Pahor M, Wilkie DJ. Avoidance-Endurance Model in Older Black Men with Low Back Pain: Exploring Relationships. *Journal of racial and ethnic health disparities* 2022;10.1007/s40615-022-01316-4
17. George SZ, Bishop MD, Wu SS, Staud R, Borsa PA, Wallace MR, Greenfield WH, 3rd, Dai Y, Fillingim RB. Biopsychosocial influence on shoulder pain: results from a randomized pre-clinical trial of exercise-induced muscle injury. *Pain* 2022;10.1097/j.pain.0000000000002700
  18. Guralnik J, Ershler W, Artz A, Lazo-Langner A, Walston J, Pahor M, Ferrucci L, Evans WJ. Unexplained anemia of aging: Etiology, health consequences, and diagnostic criteria. *Journal of the American Geriatrics Society* 2022;70:891-910.1111/jgs.17565
  19. Hernandez AR, Hoffman JM, Hernandez CM, Cortes CJ, Jumbo-Lucioni P, Baxter MG, Esser KA, Liu AC, McMahon LL, Bizon JL, Burke SN, Buford TW, Carter CS. Reuniting the Body "Neck Up and Neck Down" to Understand Cognitive Aging: The Nexus of Geroscience and Neuroscience. *The journals of gerontology Series A, Biological sciences and medical sciences* 2022;77:e1-e9.PMC875179310.1093/gerona/ghab215
  20. Hong YR, Xie Z, Suk R, Tabriz AA, Turner K, Qiu P. Analysis of US Household Catastrophic Health Care Expenditures Associated With Chronic Disease, 2008-2018. *JAMA network open* 2022;5:e2214923.PMC914286110.1001/jamanetworkopen.2022.14923
  21. Johnson AJ, Cruz-Almeida Y. Advancing our understanding of neuropathic pain in diabetes mellitus using conditioned pain modulation: further considerations for age and testing site. *Pain* 2022;163:805-610.1097/j.pain.0000000000002441
  22. Joseph V, Huo J, Cook R, Fillingim RB, Yao Y, Egziabher-Kiros G, Villarreal EV, Chen X, Molokie R, Wilkie DJ. Sociodemographic and Clinical Characteristics Associated With Worst Pain Intensity Among Cancer Patients. *Pain management nursing : official journal of the American Society of Pain Management Nurses* 2022;10.1016/j.pmn.2021.11.006
  23. Kleykamp BA, Ferguson MC, McNicol E, Bixho I, Arnold LM, Edwards RR, Fillingim R, Grol-Prokopczyk H, Ohrbach R, Turk DC, Dworkin RH. The prevalence of comorbid chronic pain conditions among patients with temporomandibular disorders: A systematic review. *Journal of the American Dental Association (1939)* 2022;153:241-50.e1010.1016/j.adaj.2021.08.008
  24. Li H, Markal A, Balch JA, Loftus TJ, Efron PA, Ozrazgat-Baslanti T, Bihorac A. Methods for Phenotyping Adult Patients in Sepsis and Septic Shock: A Scoping Review. *Critical care explorations* 2022;4:e0672.PMC897007810.1097/ccex.0000000000000672
  25. Lipat AL, Clark DJ, Hass CJ, Cruz-Almeida Y. Gait subgroups among older adults with chronic pain differ in cerebellum and basal ganglia gray matter volumes. *Experimental gerontology* 2022;163:11177310.1016/j.exger.2022.111773
  26. Lipat AL, Peterson JA, Clark DJ, Cruz-Almeida Y. Decreased cognitive function is associated with impaired spatiotemporal gait performance in community dwelling older adults with chronic musculoskeletal pain. *Brain and cognition* 2022;159:10586210.1016/j.bandc.2022.105862
  27. Lopez J, Stacciarini JM, Scarton L, Uphold CR. Interventions for Informal Caregivers of Stroke Survivors: Is There Racial and Ethnic Representation in Stroke Caregiver Studies? *Rehabilitation nursing : the official journal of the Association of Rehabilitation Nurses* 2022;47:3-1110.1097/rnj.0000000000000315
  28. Madushani R, Patel V, Loftus T, Ren Y, Li HJ, Velez L, Wu Q, Adhikari L, Efron P, Segal M, Ozrazgat-Baslanti T, Rashidi P, Bihorac A. Early Biomarker Signatures in Surgical Sepsis. *The Journal of surgical research* 2022;277:372-8310.1016/j.jss.2022.04.052
  29. Mankowski RT, Anton SD, Ghita GL, Brumback B, Darden DB, Bihorac A, Leeuwenburgh C, Moldawer LL, Efron PA, Brakenridge SC, Moore FA. Older Adults Demonstrate Biomarker Evidence of the Persistent Inflammation, Immunosuppression, and Catabolism Syndrome (PICS) After Sepsis. *The journals of gerontology Series A, Biological sciences and medical sciences* 2022;77:188-96.PMC875180710.1093/gerona/ghab080
  30. Mankowski RT, Laitano O, Darden D, Kelly L, Munley J, Loftus TJ, Mohr AM, Efron PA, Thomas RM. Sepsis-Induced Myopathy and Gut Microbiome Dysbiosis: Mechanistic Links and Therapeutic Targets. *Shock (Augusta, Ga)* 2022;57:15-2310.1097/shk.0000000000001843
  31. Montesino-Goicolea S, Valdes-Hernandez PA, Cruz-Almeida Y. Chronic Musculoskeletal Pain Moderates the Association between Sleep Quality and Dorsostriatal-Sensorimotor Resting State Functional Connectivity in Community-Dwelling Older Adults. *Pain research & management* 2022;2022:4347759.PMC901021610.1155/2022.4347759
  32. Nair VD, Vasoya M, Nair V, Smith GR, Pincas H, Ge Y, Douglas CM, Esser KA, Sealton SC. Optimization of the Omni-ATAC protocol to chromatin accessibility profiling in snap-frozen rat adipose and muscle tissues. *MethodsX* 2022;9:101681.PMC902732910.1016/j.mex.2022.101681
  33. Nmezi NA, Turkson-Ocran RA, Tucker CM, Commodore-Mensah Y. The Associations between Depression, Acculturation, and Cardiovascular Health among African Immigrants in the United States. *International*

- journal of environmental research and public health 2022;19.PMC918064410.3390/ijerph19116658
34. O'Neal LJ, Perri MG, Befort C, Janicke DM, Shankar MN, Bauman V, Daniels MJ, Dhara K, Ross KM. Differential impact of telehealth extended-care programs for weight-loss maintenance in African American versus white adults. *Journal of behavioral medicine* 2022;10.1007/s10865-022-00291-9
  35. Ozrazgat-Baslanti T, Loftus TJ, Mohandas R, Wu Q, Brakenridge S, Brumbach B, Efron PA, Anton S, Moore FA, Moldawer LL, Segal MS, Bihorac A. Clinical Trajectories of Acute Kidney Injury in Surgical Sepsis: A Prospective Observational Study. *Annals of surgery* 2022;275:1184-93.PMC811635210.1097/sla.0000000000004360
  36. Peterson JA, Meng L, Rani A, Sinha P, Johnson AJ, Huo Z, Foster TC, Fillingim RB, Cruz-Almeida Y. Epigenetic aging, knee pain and physical performance in community-dwelling middle-to-older age adults. *Experimental gerontology* 2022;166:11186110.1016/j.exger.2022.111861
  37. Picca A, Guerra F, Calvani R, Romano R, Coelho-Junior HJ, Bucci C, Leeuwenburgh C, Marzetti E. Mitochondrial-derived vesicles in skeletal muscle remodeling and adaptation. *Seminars in cell & developmental biology* 2022;10.1016/j.semcdb.2022.03.023
  38. Powell-Roach KL, Yao Y, Wallace MR, Chamala S, Cruz-Almeida Y, Jhun E, Molokie RE, Wang ZJ, Wilkie DJ. HUMAN STUDY COMT and DRD3 haplotype-associated pain intensity and acute care utilization in adult sickle cell disease. *Experimental biology and medicine (Maywood, NJ)* 2022;1535370222108071610.1177/15353702221080716
  39. Rani A, Barter J, Kumar A, Stortz JA, Hollen M, Nacionales D, Moldawer LL, Efron PA, Foster TC. Influence of age and sex on microRNA response and recovery in the hippocampus following sepsis. *Aging* 2022;14:728-4610.18632/aging.203868
  40. Roberts SB, Anton S, Dao MC. Weight Loss Strategies. *Handbook of experimental pharmacology* 2022;10.1007/164\_2022\_580
  41. Ross KM, Carpenter CA, Arroyo KM, Shankar MN, Yi F, Qiu P, Anthony L, Ruiz J, Perri MG. Impact of Transition from Face-to-Face to Telehealth on Behavioral Obesity Treatment During the COVID-19 Pandemic. *Obesity (Silver Spring, Md)* 2022;10.1002/oby.23383
  42. Ross KM, Carpenter CA, Arroyo KM, Shankar MN, Yi F, Qiu P, Anthony L, Ruiz J, Perri MG. Impact of transition from face-to-face to telehealth on behavioral obesity treatment during the COVID-19 pandemic. *Obesity (Silver Spring, Md)* 2022;30:858-63.PMC895750110.1002/oby.23383
  43. Saini SK, Singh A, Saini M, Gonzalez-Freire M, Leeuwenburgh C, Anton SD. Time-Restricted Eating Regimen Differentially Affects Circulatory miRNA Expression in Older Overweight Adults. *Nutrients* 2022;14.PMC910064110.3390/nu14091843
  44. Sambuco N, Mickle AM, Garvan C, Cardoso J, Johnson AJ, Kusko DA, Addison A, Glover TL, Staud R, Redden D, Goodin B, Fillingim RB, Sibille KT. Vulnerable Dispositional Traits and Chronic Pain: Predisposing but not Predetermining. *The journal of pain* 2022;23:693-70510.1016/j.jpain.2021.11.007
  45. Sanders AE, Weatherspoon ED, Ehrmann BM, Soma PS, Shaikh SR, Preisser JS, Ohrbach R, Fillingim RB, Slade GD. Circulating omega-6 and omega-3 polyunsaturated fatty acids in painful temporomandibular disorder and low back pain. *The journal of pain* 2022;10.1016/j.jpain.2022.05.008
  46. Schroder EA, Burgess DE, Johnson SR, Ono M, Seward T, Elayi CS, Esser KA, Delisle BP. Timing of food intake in mice unmasks a role for the cardiomyocyte circadian clock mechanism in limiting QT-interval prolongation. *Chronobiology international* 2022;39:525-34.PMC898964310.1080/07420528.2021.2011307
  47. Schroder EA, Ono M, Johnson SR, Rozmus ER, Burgess DE, Esser KA, Delisle BP. The role of the cardiomyocyte circadian clocks in ion channel regulation and cardiac electrophysiology. *The Journal of physiology* 2022;600:2037-4810.1113/jp282402
  48. Smail EJ, Kaufmann CN, Riehm KE, Mardini MT, Cenko E, Bai C, Manini TM. Worsening sleep predicts lower life space mobility during the onset of the COVID-19 pandemic. *Journal of the American Geriatrics Society* 2022;10.1111/jgs.17896
  49. Tanner JJ, Cardoso J, Terry EL, Booker SQ, Glover TL, Garvan C, Deshpande H, Deutsch G, Lai S, Staud R, Addison A, Redden D, Goodin BR, Price CC, Fillingim RB, Sibille KT. Chronic Pain Severity and Sociodemographics: An Evaluation of the Neurobiological Interface. *The journal of pain* 2022;23:248-62.PMC882869910.1016/j.jpain.2021.07.010
  50. Terry EL, Tanner JJ, Cardoso JS, Sibille KT, Lai S, Deshpande H, Deutsch G, Price CC, Staud R, Goodin BR, Redden DT, Fillingim RB. Associations between pain catastrophizing and resting-state functional brain connectivity: Ethnic/race group differences in persons with chronic knee pain. *Journal of neuroscience research* 2022;100:1047-62.PMC894063910.1002/jnr.25018
  51. Vouri SM, Morris EJ, Usmani SA, Reise R, Jiang X, Pepine CJ, Manini TM, Malone DC, Winterstein AG. Evaluation of the key prescription sequence symmetry analysis assumption using the calcium channel blocker:

- Loop diuretic prescribing cascade. *Pharmacoepidemiology and drug safety* 2022;31:72-81.PMC868831910.1002/pds.5362
52. Wade FE, Kellaher GK, Pesquera S, Baudendistel ST, Roy A, Clark DJ, Seidler RD, Ferris DP, Manini TM, Hass CJ. Kinematic analysis of speed transitions within walking in younger and older adults. *Journal of biomechanics* 2022;138:11113010.1016/j.jbiomech.2022.111130
  53. Widen EM, Burns N, Daniels M, Backlund G, Rickman R, Foster S, Nichols AR, Hoepner LA, Kinsey EW, Ramirez-Carvey J, Hassoun A, Perera FP, Bukowski R, Rundle AG. Gestational weight change and childhood body composition trajectories from pregnancy to early adolescence. *Obesity (Silver Spring, Md)* 2022;30:707-17.PMC895740310.1002/oby.23367
  54. Wijayabahu AT, Mickle AM, Mai V, Garvan C, Glover TL, Cook RL, Zhao J, Baum MK, Fillingim RB, Sibille KT. Associations between Vitamin D, Omega 6:Omega 3 Ratio, and Biomarkers of Aging in Individuals Living with and without Chronic Pain. *Nutrients* 2022;14.PMC877971810.3390/nu14020266
  55. Wilson AT, Johnson AJ, Laffitte Nodarse C, Hoyos L, Lysne P, Peraza JA, Montesino-Goicolea S, Valdes-Hernandez PA, Somerville J, Bialosky JE, Cruz-Almeida Y. Experimental Pain Phenotype Profiles in Community-dwelling Older Adults. *The Clinical journal of pain* 2022;38:451-8.PMC920244110.1097/ajp.0000000000001048
  56. Yeater TD, Cruz CJ, Cruz-Almeida Y, Allen KD. Autonomic Nervous System Dysregulation and Osteoarthritis Pain: Mechanisms, Measurement, and Future Outlook. *Current rheumatology reports* 2022;24:175-83.PMC918905510.1007/s11926-022-01071-9
  57. Yegla B, Foster TC. Operationally defining cognitive reserve genes. *Neurobiology of aging* 2022;110:96-10510.1016/j.neurobiolaging.2021.08.015
  58. Zhang D, Leeuwenburgh C, Zhou D, Gong Y, Pahor M, Licht JD, Braithwaite D. Analysis of Biological Aging and Risks of All-Cause and Cardiovascular Disease-Specific Death in Cancer Survivors. *JAMA network open* 2022;5:e221818310.1001/jamanetworkopen.2022.18183
  59. Zhang D, Mobley EM, Manini TM, Leeuwenburgh C, Anton SD, Washington CJ, Zhou D, Parker AS, Okunieff PG, Bian J, Guo Y, Pahor M, Hiatt RA, Braithwaite D. Frailty and risk of mortality in older cancer survivors and adults without a cancer history: Evidence from the National Health and Nutrition Examination Survey, 1999-2014. *Cancer* 202210.1002/cncr.34258