

James Robert White PhD

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Expertise in Biostatistics, Bioinformatics & Computational Biology

Computing

R / Perl / Python
Linux HPC / AWS
MySQL / PHP

Biostatistics

Machine learning
Biomarker discovery
IVD V&V studies
Regression
Survival analysis
Ordination methods
Longitudinal analysis
Power analysis

Cancer Genomics

Targeted-tissue
Targeted-plasma
ctDNA / cfDNA
Whole-exome
Mutational burden
Mutational signatures
HLA typing
Neoantigen analysis
RNA-seq
TCR-seq

Microbiome

16S rRNA amplicon
Metagenomics
Metatranscriptomics
Metabolomics
Bacterial genomics
Phylogenetics

Experience

January 2014 – Present

Founder | Resphera Biosciences

Resphera Biosciences provides state-of-the-art computational and biostatistical analysis services to advance translational research in medicine and biotechnology.

June 2011 – December 2014

Independent contractor

Research specialist in computational biology and statistical analysis

June 2010 – April 2013

Bioinformatics software engineer II – The Institute for Genome Sciences – University of Maryland School of Medicine

Development of automated cloud-based bioinformatics pipelines for microbiome and other multi-omics datasets

May 2008 – August 2008

Neural prosthetics algorithms group – Johns Hopkins Applied Physics Lab

Designed and implemented decision fusion framework (Kalman filtering and artificial neural networks) for multimodal neural prosthetic devices (DARPA-sponsored)

May 2007 – May 2010

Metagenomics research group – University of Maryland College Park

Development of novel statistical methods for comparative and longitudinal metagenomic data analysis

Education

University of Maryland – College Park, 2006 – 2010

Ph.D. Applied Mathematics and Scientific Computation – May 2010

University of Maryland – College Park, 2002 – 2006

B.S. *summa cum laude*, Mathematics – May 2006

Publications

1. Rousseau B, White JR, Cercek A, Diaz Jr LA. **The Duration of Immunotherapy for Mismatch Repair–Deficient Cancers.** *New England Journal of Medicine.* 392:8, February 2025.
2. Rocha P, Bach R, Masfarré L, Hernandez S, Navarro-Gorro N, Rossell A, Villanueva X, Giner M, Sánchez I, Galindo M, Del Rey-Vergara R, Sausen M, Georgiadis A, White JR, Jackson JB, Moliner L, Clavé S, Bellosillo B, Rovira A, Wistuba I, Soto LMS, Perera-Bel J, Arriola E. **Molecular and immunological features associated with long-term benefits in metastatic NSCLC patients undergoing immune checkpoint blockade.** *Onc Immunology.*

14:1, February 2025.

3. Zhao Y, Ferri JT, White JR, Schollenberger MD, Peloza K, Sears CL, Lipson EJ, Shaikh FY. **Gut microbiome features associate with immune checkpoint inhibitor response in individuals with non-melanoma skin cancers: an exploratory study.** *Microbiology Spectrum*. February 2025.
4. Foote MB, White JR, Chatila WK, Argilés G, Lu S, Rousseau B, Artz O, Johannet P, Walch H, Patel M, Lamendola-Essel MF. **Analysis of shared variants between cancer biospecimens.** *Clinical Cancer Research*. 31:2, January 2025.
5. Verner EL, Jackson JB, Maddox C, Valkenburg KC, White JR, Occean J, Morris L, Karandikar A, Gerding KM, Sausen M, Koohestani F, Greer A. **Analytical Validation of the Labcorp Plasma Complete Test, a Cell-Free DNA Comprehensive Genomic Profiling Tool for Precision Oncology.** *The Journal of Molecular Diagnostics*. January 2025.
6. Moskovljevic M, Dragoni F, Board NL, Wu F, Lai J, Zhang H, White JR, Hoh R, Lynn K, Tebas P, Mounzer K. **Cognate antigen engagement induces HIV-1 expression in latently infected CD4+ T cells from people on long-term antiretroviral therapy.** *Immunity*. 57:12, December 2024.
7. Shaikh FY, Lee S, White JR, Zhao Y, Ferri JT, Pereira G, Landon BV, Ke S, Hu C, Feliciano JL, Hales RK, Pardoll DM, Anagnostou V, Lam VK, Zaidi A, Kelly RJ, Sears CL. **Fecal Microbiome Composition Correlates with Pathologic Complete Response in Patients with Operable Esophageal Cancer Treated with Combined Chemoradiotherapy and Immunotherapy.** *Cancers*. 16:21, October 2024.
8. Shen M, García-Marqués F, Muruganantham A, Liu S, White JR, Bermudez A, Rice MA, Thompson K, Chen CL, Hung CN, Zhang Z, Liss M, Pienta K, Pitteri S, Stoyanova T. **Identification of a 5-gene signature panel for the prediction of prostate cancer progression.** *British Journal of Cancer*. 1:4, October 2024.
9. Ninni S, Vicario R, Coisne A, Woitrain E, Tazibet A, Stewart CM, Diaz Jr LA, White JR, Koussa M, Dubrulle H, Juthier F. **Clonal Hematopoiesis Is Associated With Long-Term Adverse Outcomes Following Cardiac Surgery.** *Journal of the American Heart Association*. 13:17, September 2024.
10. Kelly RJ, Landon BV, Zaidi AH, Singh D, Canzoniero JV, Balan A, Hales RK, Voong KR, Battafarano RJ, Jobe BA, Yang SC, Broderick S, Ha J, Marrone K, Pereira G, Rao N, Borole A, Karaindrou K, Belcaid Z, White JR, Ke S, Amjad A, Weksler B, Shin E, Thompson E, Smith K, Pardoll DM, Hu C, Feliciano J, Anagnostou A, Lam VK. **Neoadjuvant nivolumab or nivolumab plus LAG-3 inhibitor relatlimab in resectable esophageal/gastroesophageal junction cancer: a phase Ib trial and ctDNA analyses.** *Nature Medicine*. 30:4, April 2024.
11. Annapragada AV, Niknafs N, White JR, Bruhm DC, Cherry C, Medina JE, Adleff V, Hruban C, Mathios D, Foda ZH, Phallen J, Scharpf RB, Velculescu VE. **Genome-wide repeat landscapes in cancer and cell-free DNA.** *Science Translational Medicine*. 16:738, March 2024.
12. Liss MA, Dursun F, Hackman GL, Gadallah MI, Saha A, Friedman CA, Rathore AS, Chandra P, White JR, Tiziani S, DiGiovanni J. **Phase 1 clinical trial evaluating safety, bioavailability, and gut microbiome with a combination of curcumin and ursolic acid in lipid enhanced capsules.** *Journal of Traditional and Complementary Medicine*. March 2024.
13. Greathouse KL, Stone JK, Vargas AJ, Choudhury A, Padgett RN, White JR, Jung A, Harris CC. **Co-enrichment of cancer-associated bacterial taxa is correlated with immune cell infiltrates in esophageal tumor tissue.** *Scientific Reports*. 14:1, January 2024.
14. Murray JC, Sivapalan L, Hummelink K, Balan A, White JR, Niknafs N, Rhymee L, Pereira G, Rao N, Weksler B, Bahary N, Phallen J, Leal A, Bartlett D, Marrone K, Naidoo J, Goel A, Levy B, Rosner S, Hann CL, Scott S, Feliciano J, Lam VK, Ettinger D, Li Q, Illei PB, Monkhorst K, Scharpf RB, Brahmer J, Velculescu VE, Zaidi A, Forde PM, Anagnostou V. **Elucidating the heterogeneity of immunotherapy response and immune-related toxicities by longitudinal ctDNA and immune cell compartment tracking in lung cancer.** *Clinical Cancer Research*. 30:2, January 2024.
15. Chandra V, Li L, Le Roux O, Zhang Y, Howell RM, Rupani DN, Baydogan S, Miller HD, Riquelme E, Petrosino J, Kim MP, Bhat K, White JR, Kolls J, Pylayeva-Gupta Y, McAllister F. **Gut epithelial Interleukin-17 receptor A signaling can modulate distant tumors growth through microbial regulation.** *Cancer cell*. 42:1, January 2024.
16. Wright RD, Bartelli TF, Baydogan S, White JR, Kim MP, Bhutani MS, McAllister F. **Bacterial and fungal characterization of pancreatic adenocarcinoma from Endoscopic Ultrasound-guided biopsies.** *Frontiers in Immunology*. 13:14, October 2023.
17. Rieg T, Xue J, Stevens M, Thomas L, White JR, Dominguez Rieg JA. **Intravenous ferric carboxymaltose and ferric derisomaltose alter the intestinal microbiome in female iron-deficient anemic mice.** *Bioscience Reports*. 43:9, September 2023.
18. Bruhm DC, Mathios D, Foda ZH, Annapragada AV, Medina JE, Adleff V, Chiao EJ, Ferreira L, Cristiano S, White JR, Mazzilli SA, Billatos E, Spira A, Zaidi A, Mueller J, Kim A, Anagnostou V, Phallen J, Scharpf R, Velculescu V. **Single-**

- molecule genome-wide mutation profiles of cell-free DNA for non-invasive detection of cancer.** *Nature Genetics*. 55:1, July 2023.
19. Sivapalan L, Iams WT, Belcaid Z, Scott SC, Niknafs N, Balan A, White JR, Koppurapu P, Cann C, Landon BV, Pereira G, Velculescu V, Hann C, Lovly C, Anagnostou V. **Dynamics of sequence and structural cell-free DNA landscapes in small-cell lung cancer.** *Clinical Cancer Research*. 29:12, June 2023.
 20. Ninni S, Dombrowicz D, Kuznetsova T, Vicario R, Gao V, Molendi-Coste O, Haas J, Woitrain E, Coisne A, Neele AE, Prange K, White JR, Geissmann F, Staels B, Montaigne D. **Hematopoietic somatic mosaicism is associated with an increased risk of postoperative atrial fibrillation.** *Journal of the American College of Cardiology*. 81:13, April 2023.
 21. Diplas BH, Ptashkin R, Chou JF, Sabwa S, Foote MB, Rousseau B, Argilés G, White JR, Stewart CM, Bolton K, Chalasani SB, Diaz JA, Maron SB. **Clinical Importance of Clonal Hematopoiesis in Metastatic Gastrointestinal Tract Cancers.** *JAMA Network Open*. 6:2, February 2023.
 22. Scharpf RB, Balan A, Ricciuti B, Fiksel J, Cherry C, Wang C, Lenoue-Newton ML, Rizvi HA, White JR, Baras AS, Anaya J, Anagnostou V. **Genomic Landscapes and Hallmarks of Mutant RAS in Human Cancers.** *Cancer Research*. 82:21, November 2022.
 23. Seshadri R, Roux S, Huber KJ, Wu D, Yu S, Udway D, Call L, Nayfach S, Hahnke RL, Pukall R, White JR, Ivanova N. **Expanding the genomic encyclopedia of Actinobacteria with 824 isolate reference genomes.** *Cell Genomics*. 100213, November 2022.
 24. Matute JD, Duan J, Flak MB, Griebel P, Tascon-Arcila JA, Doms S, Hanley T, Antanaviciute A, Gundrum J, Mark Welch JL, Sit B, Abtahi S, Fuhler G, Grootjans J, Tran F, Stengel S, White JR, Blumberg RS. **Intelectin-1 binds and alters the localization of the mucus barrier-modifying bacterium *Akkermansia muciniphila*.** *Journal of Experimental Medicine*. 220:1, November 2022.
 25. Peiffer LB, White JR, Jones CB, Slottke RE, Ernst SE, Moran AE, Graff JN, Sfanos KS. **Composition of gastrointestinal microbiota in association with treatment response in individuals with metastatic castrate resistant prostate cancer progressing on enzalutamide and initiating treatment with anti-PD-1 (pembrolizumab).** *Neoplasia*. 32:100822, October 2022.
 26. Ling W, Lu J, Zhao N, Lulla A, Plantinga AM, Fu W, Zhang A, Liu H, Song H, Li Z, Chen J, Randolph T, Koay W, White JR, Wu M. **Batch effects removal for microbiome data via conditional quantile regression.** *Nature Communications*. 13:1, September 2022.
 27. Wan J, Stephens D, Luo L, White JR, Stewart CM, Rousseau B, Tsui DW, Diaz LA. **Genome-wide mutational signatures in low-coverage whole genome sequencing of cell-free DNA.** *Nature Communications*. 13:1, August 2022.
 28. Drewes JL, Chen J, Markham NO, Knippel RJ, Domingue JC, Tam AJ, Chan JL, Kim L, McMan M, Stevens C, Dejea CM, Tomkovich S, Michel J, White JR, Sears CL. **Human colon cancer-derived *Clostridioides difficile* strains drive colonic tumorigenesis in mice.** *Cancer Discovery*. 12:8, June 2022.
 29. Hwang M, Canzoniero JV, Rosner S, Zhang G, White JR, Belcaid Z, Cherry C, Balan A, Pereira G, Curry A, Niknafs N, Anagnostou V. **Peripheral blood immune cell dynamics reflect antitumor immune responses and predict clinical response to immunotherapy.** *Journal for Immunotherapy of Cancer*. 10:6, June 2022.
 30. Botsis T, Murray J, Alessandro LE, Palsgrove D, Wei WA, White JR, Velculescu VE, Anagnostou V, Johns Hopkins Molecular Tumor Board Investigators. **Natural Language Processing Approaches for Retrieval of Clinically Relevant Genomic Information in Cancer.** *Studies in health technology and informatics*. 295:350, June 2022.
 31. Keefer LA, White JR, Wood D, Gerding K, Valkenburg K, Riley D, Gault C, Papp E, Vollmer C, Greer A, Hernandez J, McGregor P, Zingone A, Ryan B, Deak K, McCall S, Datto M, Prescott J, Thompson J, Cerqueira G, Jones S, Simmons J, McElhinny A, Dickey J, Anguoli SA, Diaz LA, Velculescu VE, Sausen M. **Automated next-generation profiling of genomic alterations in human cancers.** *Nature Communications*. 13:2830, May 2022.
 32. Xue J, Rieg JA, Thomas L, White JR, Rieg T. **Intestine-Specific NHE3 Deletion in Adulthood Causes Microbial Dysbiosis.** *Frontiers in Cellular and Infection Microbiology*. 12, May 2022.
 33. Shao XM, Huang J, Niknafs N, Balan A, Cherry C, White JR, Velculescu VE, Anagnostou V, Karchin R. **HLA class II immunogenic mutation burden predicts response to immune checkpoint blockade.** *Annals of Oncology*. 10.1016/j.annonc.2022.03.013, March 2022.
 34. Jones CB, White JR, Ernst SE, Sfanos KS, Peiffer LB. **Incorporation of Data From Multiple Hypervariable Regions when Analyzing Bacterial 16S rRNA Gene Sequencing Data.** *Frontiers in Genetics*. 13:799615, March 2022.
 35. Shaikh FY, Gills JJ, Mohammad F, White JR, Stevens CM, Ding H, Fu J, Tam A, Blosser RL, Domingue JC, Larman T, Chaff J, Spicer J, Reuss J, Naidoo J, Forde P, Ganguly S, Housseau F, Pardoll D, Sears CL. **Murine fecal microbiota transfer models selectively colonize human microbes and reveal transcriptional programs associated with response to neoadjuvant checkpoint inhibitors.** *Cancer Immunology Immunotherapy*. 10.1007/s00262-022-03169-6, February 2022.

36. Queen J, Domingue JC, White JR, Stevens C, Udayasuryan B, Nguyen TT, Wu S, Ding H, Fan H, McMan M, Corona A, Larman T, Verbridge S, Housseau F, Slade D, Drewes J, Sears CL. **Comparative Analysis of Colon Cancer-Derived *Fusobacterium nucleatum* Subspecies: Inflammation and Colon Tumorigenesis in Murine Models.** *Mbio*. 13:1, February 2022.
37. Forde PM, Anagnostou V, Sun Z, Dahlberg SE, Kindler HL, Niknafs N, Purcell T, Santana-Davila R, Dudek A, Borghaei H, Lanis M, Belcaid Z, Smith K, Balan A, White JR, Cherry C, Sivakumar A, Shao X, Chan H, Singh D, Thapa S, Illei P, Pardoll D, Karchin R, Velculescu VE, Brahmer J, Ramalingam SS. **Durvalumab with platinum-pemetrexed for unresectable pleural mesothelioma: survival, genomic and immunologic analyses from the phase 2 PrE0505 trial.** *Nature Medicine*. 27:11, November 2021.
38. Zhao N, Khamash DF, Koh H, Voskertchian A, Egbert E, Mongodin EF, White JR, Hittle L, Colantuoni E, Milstone AM. **Low Diversity in Nasal Microbiome Associated with *Staphylococcus aureus* Colonization and Bloodstream Infections in Hospitalized Neonates.** *Open Forum Infectious Diseases*. 8:10, October 2021.
39. Mathios D, Johansen JS, Cristiano S, Medina JE, Phallen J, Larsen KR, Bruhm DC, Niknafs N, Ferreira L, Adleff V, Chiao JY, Leal A, Noe M, White JR, Arun AS, Hruban C, Annapragada AV, Jensen S, Orntoft MW, Madsen AH, Carvalho B, de Wit M, Carey J, Dracopoli NC, Maddala T, Fang KC, Hartman AR, Forde PM, Anagnostou V, Brahmer J, Fijneman R, Nielsen H, Meijer G, Andersen C, Mellempgaard A, Bojesen S, Scharpf R, Velculescu VE. **Detection and characterization of lung cancer using cell-free DNA fragmentomes.** *Nature Communications*. 12:1, August 2021.
40. Foote MB, White JR, Jee J, Argilés G, Wan JC, Rousseau B, Pessin MS, Diaz LA. **Association of Antineoplastic Therapy With Decreased SARS-CoV-2 Infection Rates in Patients With Cancer.** *JAMA Oncology*. doi:10.1001/jamaoncol.2021.3585, August 2021.
41. Shields CE, White JR, Chung L, Wenzel A, Hicks JL, Tam AJ, Chan JL, Dejea CM, Fan H, Michel J, Maiuri AR, Sriramkumar S, Podicheti R, Rusch DB, Wang H, De Marzo AM, Besharati S, Anders RA, Baylin SB, O'Hagan HM, Housseau F, Sears CL. **Bacterial-driven inflammation and mutant BRAF expression combine to promote murine colon tumorigenesis that is sensitive to immune checkpoint therapy.** *Cancer Discovery*. 11:1, June 2021.
42. Shaikh FY, White JR, Gills JJ, Hakozaki T, Richard C, Routy B, Okuma Y, Usyk M, Pandey A, Weber JS, Ahn J, Lipson EJ, Naidoo J, Pardoll DM, Sears CL. **A Uniform Computational Approach Improved on Existing Pipelines to Reveal Microbiome Biomarkers of Nonresponse to Immune Checkpoint Inhibitors.** *Clinical Cancer Research*. 27:9, May 2021.
43. Shatkin-Margolis A, White JR, Jedlicka AE, Tam T, Hill A, Yeung J, Crisp CC, Pauls RN. **The effect of mindfulness-based stress reduction on the urinary microbiome in interstitial cystitis.** *International Urogynecology Journal*. 15:1, May 2021.
44. Noel S, Mohammad F, White JR, Lee K, Gharraie S, Rabb H. **Gut microbiota-immune system interactions during acute kidney injury.** *Kidney360*. 2:3, March 2021.
45. Anagnostou V, Bruhm DC, Niknafs N, White JR, Shao XM, Sidhom JW, Stein J, Tsai HL, Wang H, Belcaid Z, Murray J, Balan A, Ferreira L, Ross-Macdonald P, Wind-Rotolo M, Baras AS, Taube J, Karchin R, Scharpf RB, Grasso C, Ribas A, Pardoll DM, Topalian SL, Velculescu VE. **Integrative Tumor and Immune Cell Multi-omic Analyses Predict Response to Immune Checkpoint Blockade in Melanoma.** *Cell Reports Medicine*. 1:8, November 2020.
46. Reuss JE, Anagnostou V, Cottrell TR, Smith KN, Verde F, Zahurak M, Lanis M, Murray JC, Chan HY, McCarthy C, Wang D, White JR, Yang S, Battafarano R, Broderick S, Bush E, Brock M, Ha J, Jones D, Merghoub T, Taube J, Velculescu VE, Rosner G, Illei P, Pardoll DM, Topalian S, Naidoo J, Levy B, Hellmann MD, Brahmer JR, Chaft JE, Forde PM. **Neoadjuvant nivolumab plus ipilimumab in resectable non-small cell lung cancer.** *Journal for Immunotherapy of Cancer*. 8:2, September 2020.
47. White JR, Foote MB, Jee J, Argilés G, Wan JM, Diaz LA. **PI3K/mTOR and topoisomerase inhibitors with potential activity against SARS-CoV-2 infection.** *medRxiv [pre-print]*. doi.org/10.1101/2020.09.02.20186783, September 2020.
48. Banerjee A, Herring CA, Chen B, Kim H, Simmons AJ, Southard-Smith AN, Allaman MM, White JR, Macedonia MC, Mckinley ET, Solano MA, Scoville E, Liu Q, Wilson K, Coffey R, Washington M, Goettel J, Lau K. **Succinate Produced by Intestinal Microbes Promotes Specification of Tuft Cells to Suppress Ileal Inflammation.** *Gastroenterology*. doi.org/10.1053/j.gastro.2020.08.029, August 2020.
49. Noë M, Niknafs N, Fischer CG, Hackeng WM, Guthrie VB, Hosoda W, Debeljak M, Papp E, Adleff V, White JR, Luchini C, Pea A, Scarpa A, Butturini G, Zamboni G, Castelli P, Hong S, Yachida S, Hiraoka N, Gill A, Samra J, Offerhaus G, Hoorens A, Verheij J, Jansen C, Adsay N, Jiang W, Winter J, Albores-Saavedra J, Terris B, Thompson E, Roberts N, Hruban R, Karchin R, Scharpf R, Brosens L, Velculescu V, Wood L. **Genomic characterization of malignant progression in neoplastic pancreatic cysts.** *Nature Communications*. 11:1, August 2020.
50. Merino DM, McShane LM, Fabrizio D, Funari V, Chen SJ, White JR, Wenz P, Baden J, Barrett JC, Chaudhary R, Chen L, Chen W, Cheng J, Cyanam D, Dickey J, Gupta V, Hellmann M, Helman E, Li Y, Maas J, Papin A, Patidar R,

- Quinn K, Rizvi N, Tae H, Ward C, Xie M, Zehir A, Zhao C, Dietel M, Stenzinger A, Stewart M, Allen J. **Establishing guidelines to harmonize tumor mutational burden (TMB): in silico assessment of variation in TMB quantification across diagnostic platforms: phase I of the Friends of Cancer Research TMB Harmonization Project.** *Journal for Immunotherapy of Cancer.* 8:1, March 2020.
51. Labriola MK, Zhu J, Gupta R, McCall S, Jackson J, Kong EF, White JR, Cerqueira G, Gerding K, Simmons JK, George D, Zhang T. **Characterization of tumor mutation burden, PD-L1 and DNA repair genes to assess relationship to immune checkpoint inhibitors response in metastatic renal cell carcinoma.** *Journal for Immunotherapy of Cancer.* 8:1, March 2020.
 52. Velculescu V, Zhang T, White JR, Diaz L (inventors); Personal Genome Diagnostics Inc, assignee. **Neoantigen treatment prioritization using multivariate analysis based on: HLA genotype, self-similarity, similarity to known antigens, antigen expression levels and mutant allele frequency.** *United States Patent.* US 10,563,266, February 2020.
 53. Liss MA, Chen Y, Rodriguez R, Pruthi D, Johnson-Pais T, Wang H, Mansour A, White JR, Kaushik D. **Microbiome within Primary Tumor Tissue from Renal Cell Carcinoma May Be Associated with PD-L1 Expression of the Venous Tumor Thrombus.** *Advances in Urology.* 2020:9068068, February 2020.
 54. Anagnostou V, Niknafs N, Marrone K, Bruhm DC, White JR, Naidoo J, Hummelink K, Monkhorst K, Lalezari F, Lanis M, Rosner S, Reuss J, Smith K, Adleff V, Rodgers K, Belcaid Z, Rhymee L, Levy B, Feliciano J, Hann C, Ettinger D, Georgiades C, Verde F, Illei P, Li Q, Baras A, Gabrielson E, Brock M, Karchin R, Pardoll D, Baylin S, Brahmer J, Scharpf R, Forde P, Velculescu V. **Multimodal genomic features predict outcome of immune checkpoint blockade in non-small-cell lung cancer.** *Nature Cancer.* 1:1, January 2020.
 55. Zhang A, Sodhi C, Wang M, Shores D, Fulton W, Prindle T, Brosten S, O'Hare E, Lau A, Ding H, Jia H, Lu P, White JR, Hui J, Sears C, Hackam D, Alaish S. **A Central Role for Lipocalin-2 in the Adaptation to Short Bowel Syndrome through Downregulation of IL-22 in Mice.** *Cellular and Molecular Gastroenterology and Hepatology.* 10:2, January 2020.
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 59. Wan JC, White JR, Diaz Jr LA. **Hey CIRI, What's My Prognosis?** *Cell.* 178:3, July 2019.
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 62. Anagnostou V, Forde PM, White JR, Niknafs N, Hruban C, Naidoo J, Marrone K, Sivakumar A, Bruhm DC, Rosner S, Phallen J, Leal A, Adleff V, Smith KN, Cottrell TR, Rhymee L, Palsgrove DN, Hann CL, Levy B, Feliciano J, Georgiades C, Verde F, Illei P, Li Q, Gabrielson E, Brock MV, Isbell JM, Sauter JL, Taube J, Scharpf RB, Karchin R, Pardoll DM, Chaft JE, Hellmann MD, Brahmer JR, Velculescu VE. **Dynamics of Tumor and Immune Responses during Immune Checkpoint Blockade in Non-Small Cell Lung Cancer.** *Cancer Research.* 79:6, March 2019.
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