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
- Multi-omics integration
- Regression
- Survival analysis
- Longitudinal analysis
- Power analysis

Cancer Genomics
- Targeted-tissue
- Targeted-plasma
- ctDNA / cfDNA
- Whole-exome
- Whole-genome
- 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. Liu H, Jang JH, Peng F, Rajaei H, Chandra V, Li L, Rupani DN, Taghinezhad S, Zhao Y, Faraoni EY, Bartelli TF, Le Roux O, Tahan V, Jimenez-Arancon F, Baydogan S, Mohseni AH, Gomez JA, Patel M, Burks JK, Miño Galvez B, Carvajal-Hausdorf DE, Ruiz-García E, Fernandez-Figueroa EA, Kopetz S, Maron SB, Cercek A, Riquelme EM, Navin NE, White JR, Wang L, Diaz LA, McAllister F. **Tumor microbial burden drives immune responses through regulation of Interferon signaling**. *Cancer Discovery*. doi: 10.1158/2159-8290.CD-24-1908, June 2026.
2. Southward T, Zhuang Y, Tam A, Minsky H, Ferri J, Michel J, Wu S, Wu X, Larman T, Housseau F, White JR, Sears

CL, Queen J. **Enterotoxigenic Bacteroides fragilis induces host genotype-specific colonic epithelial and immune responses in mice**. *The Journal of Infectious Diseases*. jiag247, May 2026.

3. Anderson SM, Cing Z, Drewes JL, White JR, Southward T, Beauregard H, Ferri JT, Wanyiri JW, Roslani A, Vadivelu J, Tang SN, Queen J, Sears CL. **Clostridioides difficile Detection in a Human CRC Cohort**. *Open Forum Infectious Diseases*. 13:4, April 2026.
4. Liss MA, White JR, Doris M, Lai Z, Johnson-Pais TL, Leach RJ, Goros M, Gelfond J, Wickes B. **Gut Microbiome as a Lifestyle Risk Factor Associated with Prostate Cancer**. *European Urology Focus*. doi10.1016/j.euf.2026.01.001 , February 2026.
5. Ghandehari SS, Van Benschoten I, Arcellana PD, White JR, Hapeman C, Torrents A, Kjellerup BV. **Use of upcycled biosolids for bioremediation of groundwater contaminated with chlorinated solvents**. *Environmental Science and Pollution Research*. 8:1, January 2026.
6. Rubio-Alarcón C, Georgiadis A, Franken IA, Wang H, Van Nassau SCMW, Schraa SJ, van der Kruijssen DEW, van Rooijen K, Linders TCL, Delis-van Diemen P, Alkemade M, Bolijn A, Tijssen M, Lemmens M, Meiqari L, Ketelaars SLC, Closa-Mosquera A, van Dongen MMW, Lanfermeijer M, Lissenberg-Witte BI, Bosch LJW, Bisschop-Snetselaar T, Adriaans BC, Greer A, Riley D, White JR, Greco C, Cox L, Fox J, Victor K, Leech C, Angiuoli SV, Kok NFM, Punt CJA, van den Broek D, Koopman M, Meijer GA, Velculescu VE, Roodhart JML, Coupé VMH, Sausen M, Vink GR, Fijneman RJA. **Circulating tumour DNA in patients with stage III colon cancer: multicentre prospective PROVENC3 study**. *British Journal of Surgery*. 113:1, January 2026.
7. Serbanescu M, Lee S, Li F, Boppana SH, Elebasy M, White JR, Mintz CD. **Effects of perioperative exposure on the microbiome and outcomes from an immune challenge in C57Bl/6 adult mice**. *Anesthesia & Analgesia*. 142:1, January 2026.
8. Rocha P, Bach R, Masfarré L, Hernandez S, Navarro-Gorro N, Rossell A, Villanueva X, Giner M, Sanchéz I, Galindo M, Del Rey-Vergara R, Iñañez A, Sanchéz-Espiridion B, Lu W, Acedo-Terrades A, Berenguer-Molins P, Sánchez-Font A, Chalela R, Curull V, Taus Á, Hardy-Werbin M, Sausen M, Georgiadis A, White J, Jackson JB, Moliner L, Clavé S, Bellosillo B, Rovira A, Wistuba I, Solis Soto LM, Perera-Bel J, Arriola E. **Molecular and immunological features associated with long-term benefits in metastatic NSCLC patients undergoing immune checkpoint blockade.** *Oncoimmunology*. 14:1, December 2025.
9. Serbanescu MA, Wright MC, Elebasy M, Shi P, Arnold JW, Haines KL, White JR, Surana NK, Wischmeyer PE. **Impact of fiber-containing enteral nutrition on microbial community dynamics in critically ill trauma patients: a pilot-randomized trial**. *BMC medicine*. 23:1, December 2025.
10. Scott JM, Tsai BL, Stewart C, Eng SE, White JR, Bolton KL, Vaz-Luis I, Havas J, Di Meglio A, Martin AL, Boyault S, Wang R, Micol JB, Diaz Jr LA, Boutros PC, Jones LW. **Impact of Exercise on Clonal Hematopoiesis**. *JACC: Advances*. 4:11, November 2025.
11. Noel S, Patel SK, White J, Verma D, Menez S, Raj D, Parikh C, Rabb H, **Kidney Precision Medicine Project. Metagenomic Profiling of Gut Microbiota in Kidney Precision Medicine Project Participants With CKD and AKI**. *Comprehensive Physiology*. 15:5, October 2025.
12. Huang J, Theelen WSME, Belcaid Z, Najjar M, van der Geest D, Singh D, Cherry C, Balan A, White JR, Wehr J, Karchin R, Niknafs N, van den Heuvel MM, Velculescu VE, Smith KN, Baas P, Anagnostou V. **Combination of pembrolizumab and radiotherapy induces systemic antitumor immune responses in immunologically cold non-small cell lung cancer.** *Nature Cancer.* 6:10, October 2025.
13. Giles BM, Culp-Hill R, Law RA, Nichols CM, Goldberg M, Radnaa E, Wong M, Hansen C, Zapata M, Hill C, Behbakht K, Bitler BG, Crosbie EJ, Barr CE, Jeter A, Fa VS, Guthrie VB, Hagmann LN, Kubota EC, White JR, McElhinny A. **Utilizing serum-derived lipidomics with protein biomarkers and machine learning for early detection of ovarian cancer in the symptomatic population.** *Cancer Research Communications*. 5:9, September 2025.
14. Law RA, Giles BM, Culp-Hill R, Radnaa E, Goldberg M, Nichols CM, Wong M, Hansen C, Hill C, Eurich K, Prendergast E, Behbakht K, Bitler BG, Jeter A, Fa VS, White JR, Elias K, McElhinny A. **Clinical Evaluation of a Multi-Omic Diagnostic Model for Early-Stage Ovarian Cancer Detection**. *Diagnostics*. 15:17, September 2025.
15. Stewart CM, Parpart-Li S, White JR, Patel M, Artz O, Foote MB, Gedvilaite E, Lamendola-Essel MF, Gerber D, Bhattacharya R, Haseltine JM, Huberman K, Bolton KL, Levine RL, Diaz Jr LA. **Clonal hematopoiesis detection by simultaneous assessment of peripheral blood mononuclear cells, blood plasma, and saliva**. *The Journal of Clinical Investigation*. 135:16, August 2025.
16. Rousseau B, Patel M, Artz O, Vlachos G, Patel S, Hayatt O, Argilés G, Foote MB, Luo L, Shah R, Mehta S, Rangavajhula K, Stewart CM, Gerber D, Bhattacharya R, Stephens D, Mieles D, Randrian V, Abdelfattah S, Zhang L, Membreno-Berganza N, Lamendola-Essel MF, Piastra-Facon F, Vidal J, Johannet P, Lu S, White JR, Maron SB, Barlas A, Weipert CM, Rosiek E, Zhang T, He B, Monette S, Qu R, Fidele D, Bowker S, Kahn A, Vitiello PP, Germano G, Bardelli A, Mandal R, Ma X, Chan TA, Lu S, Cercek A, Abdel-Wahab O, de Stanchina E, Segal NH, Diaz Jr LA. **Induction of a mismatch repair deficient genotype by tailored chemical mutagenesis in**

experimental models of cancer. *Cancer Cell*. 43:7, July 2025.

17. Velculescu V, Zhang T, White JR, Diaz L (inventors); Personal Genome Diagnostics Inc, assignee. **Methods and systems for identification and prioritization of mutation-derived neoantigens**. *United States Patent.* US 12,331,361, June 2025.
18. Artz O, White JR, Rousseau B, Argiles G, Foote MB, Johannet P, Patel M, Abdelfattah S, Patel S, Wilde C, Mieles D, Diaz Jr LA. **The role of recurrent somatic mutations that alter conserved m6A motifs in human cancer.** *NAR cancer*. 7:2, June 2025.
19. Queen J, Cing Z, Minsky H, Nandi A, Southward T, Ferri J, McMann M, Iyadorai T, Vadivelu J, Roslani A, Loke MF, Wanyiri J, White JR, Drewes JL, Sears CL. **Fusobacterium nucleatum is enriched in invasive biofilms in colorectal cancer**. *npj Biofilms and Microbiomes* 11:1, May 2025.
20. 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*. 13:3, March 2025.
21. 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.
22. Rocha P, Bach R, Masfarré L, Hernandez S, Navarro-Gorro N, Rossell A, Villanueva X, Giner M, Sanchéz 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**. *OncoImmunology*. 14:1, February 2025.
23. 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.
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25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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*. 14:5, March 2024.
32. 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.
33. 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.

34. 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.
35. 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.
36. 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.
37. 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.
38. Sivapalan L, Iams WT, Belcaid Z, Scott SC, Niknafs N, Balan A, White JR, Kopparapu 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.
39. Ghandehari SS, Boyer J, Ronin D, White JR, Hapeman CJ, Jackson D, Kaya D, Torrents A, Kjellerup BV. **Use of organic amendments derived from biosolids for groundwater remediation of TCE.** *Chemosphere*. 1:323, May 2023.
40. 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.
41. 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.
42. 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.
43. Seshadri R, Roux S, Huber KJ, Wu D, Yu S, Udwary 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.
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45. 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.
46. 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.
47. 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.
48. Drewes JL, Chen J, Markham NO, Knippel RJ, Domingue JC, Tam AJ, Chan JL, Kim L, McMann 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.
49. 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.
50. 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.

51. 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, Anguioli SA, Diaz LA, Velculescu VE, Sausen M. **Automated next-generation profiling of genomic alterations in human cancers.** *Nature Communications.* 13:2830, May 2022.
52. 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.
53. 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.
54. 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.
55. Shaikh FY, Gills JJ, Mohammad F, White JR, Stevens CM, Ding H, Fu J, Tam A, Blosser RL, Domingue JC, Larman T, Chaft 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.
56. Queen J, Domingue JC, White JR, Stevens C, Udayasuryan B, Nguyen TT, Wu S, Ding H, Fan H, McMann 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.
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62. 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.
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64. Noel S, Mohammad F, White JR, Lee K, Gharaie S, Rabb H. **Gut microbiota-immune system interactions during acute kidney injury.** *Kidney360*. 2:3, March 2021.
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