



Ansuman Satpathy, MD, PhD

Associate Professor of Pathology

Bio

BIO

Dr. Ansuman Satpathy, M.D., Ph.D., is a physician-scientist and Associate Professor of Pathology and Immunology at Stanford University. He is the director of the Stanford Center for Immunotherapy Design, co-director of the Parker Institute for Cancer Immunotherapy, and co-director of the Immunotherapy Program in the Stanford Cancer Institute. Ansu's research combines expertise in immunology, high-throughput genomics, and computation to discover principles of the immune system in health and disease and to translate these discoveries into novel clinical therapeutics. He is a co-founder of Immunai, Cartography Biosciences, Santa Ana Bio, and Prox Biosciences, and a venture partner at Wing Venture Capital.

Ansu holds a BS in molecular biology and BA in philosophy from the University of Illinois, an MD and PhD in immunology from Washington University in St. Louis, and completed his clinical residency and postdoctoral training in genetics at Stanford University.

ACADEMIC APPOINTMENTS

- Associate Professor, Pathology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Faculty Fellow, Sarafan ChEM-H
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Medical Director, Pre-Analytical Laboratory, Stanford Hospital, (2019- present)
- Member, Parker Institute for Cancer Immunotherapy, (2019- present)

HONORS AND AWARDS

- Emerging Leader Award, The Mark Foundation for Cancer Research (2024)
- Lloyd J. Old STAR Award, Cancer Research Institute (2022)
- Donald and Delia Baxter Foundation Faculty Scholar, Baxter Foundation (2021)
- Pew-Stewart Scholar in Cancer Research, Pew Charitable Trust (2021)
- ASH Scholar Award, American Society of Hematology (2020)
- Technology Impact Award, Cancer Research Institute (2019)
- Career Award for Medical Scientists, Burroughs Wellcome Fund (2018)

- Innovative Technology Award, Bill and Melinda Gates Foundation (2018)
- Michelson Prize for Human Immunology and Vaccine Research, Michelson Research Foundation (2018)
- Bridge Scholar, Parker Institute for Cancer Immunotherapy (2017)
- Irvington Postdoctoral Fellowship, Cancer Research Institute (2016)
- David M. Kipnis Dissertation Award, Washington University School of Medicine (2013)

PROFESSIONAL EDUCATION

- Postdoc, Stanford University , Genetics (2019)
- Residency, Stanford Hospital and Clinics , Clinical Pathology (2017)
- Ph.D., Washington University in St. Louis , Immunology (2014)
- M.D., Washington University in St. Louis , Medicine (2014)
- Visiting Scholar, King's College London , Computational Biology (2005)
- B.A., University of Illinois, Urbana-Champaign , Philosophy (2006)
- B.S., University of Illinois, Urbana-Champaign , Molecular Biology (2006)

LINKS

- <https://twitter.com/Satpathology>: <https://twitter.com/Satpathology>
- Google Scholar: <https://scholar.google.com/citations?user=KglzeysAAAAJ&hl=en>
- Lab Website: <https://www.satpathylab.com>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our lab works at the interface of immunology, cancer biology, and genomics to study cellular and molecular mechanisms of the immune response to cancer. In particular, we are leveraging high-throughput genomic technologies to understand the dynamics of the tumor-specific T cell response to cancer antigens and immunotherapies (checkpoint blockade, CAR-T cells, and others). We are also interested in understanding the impact of immun-editing on the heterogeneity and clonal evolution of cancer.

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Pranav Lalgudi, Nick Phillips, Flora Tierney

Postdoctoral Faculty Sponsor

Chris McGinnis, Daniel McManus, Laura Moser, Michael Papanicolaou, Jiayu Ye

Doctoral Dissertation Advisor (AC)

Christie Chang, Austin Hartman, Max Miao, Colin Raposo, Oliver Takacsi-Nagy, Pat Yan

Doctoral Dissertation Co-Advisor (AC)

Peter Du

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Data Science (Phd Program)

- Cancer Biology (Phd Program)
- Immunology (Phd Program)

Publications

PUBLICATIONS

- **Cell type-specific purifying selection of synonymous mitochondrial DNA variation.** *Proceedings of the National Academy of Sciences of the United States of America*
Lareau, C. A., Maschmeyer, P., Yin, Y., Gutierrez, J. C., Dhindsa, R. S., Gribling-Burrer, A. S., Zielinski, S., Hsieh, Y. H., Nitsch, L., Dimitrova, V., Nalbant, B., Buquicchio, F. A., Abay, et al
2025; 122 (30): e2505704122
- **Transcript-specific enrichment enables profiling of rare cell states via single-cell RNA sequencing.** *Nature genetics*
Abay, T., Stickels, R. R., Takizawa, M. T., Nalbant, B. N., Hsieh, Y. H., Hwang, S., Snopkowski, C., Yu, K. K., Abou-Mrad, Z., Tabar, V., Howitt, B. E., Ludwig, L. S., Chaligné, et al
2025
- **Distinct epigenomic landscapes underlie tissue-specific memory T cell differentiation.** *Immunity*
Buquicchio, F. A., Fonseca, R., Yan, P. K., Wang, F., Evrard, M., Obers, A., Gutierrez, J. C., Raposo, C. J., Belk, J. A., Daniel, B., Zareie, P., Yost, K. E., Qi, et al
2024
- **The temporal progression of lung immune remodeling during breast cancer metastasis.** *Cancer cell*
McGinnis, C. S., Miao, Z., Superville, D., Yao, W., Goga, A., Reticker-Flynn, N. E., Winkler, J., Satpathy, A. T.
2024
- **Latent human herpesvirus 6 is reactivated in CAR T cells.** *Nature*
Lareau, C. A., Yin, Y., Maurer, K., Sandor, K. D., Daniel, B., Yagnik, G., Peña, J., Crawford, J. C., Spanjaart, A. M., Gutierrez, J. C., Haradhvala, N. J., Riberdy, J. M., Abay, et al
2023
- **Lineage tracing reveals clonal progenitors and long-term persistence of tumor-specific T cells during immune checkpoint blockade.** *Cancer cell*
Pai, J. A., Hellmann, M. D., Sauter, J. L., Mattar, M., Rizvi, H., Woo, H. J., Shah, N., Nguyen, E. M., Uddin, F. Z., Quintanal-Villalonga, A., Chan, J. M., Manoj, P., Allaj, et al
2023
- **Macrophage inflammatory and regenerative response periodicity is programmed by cell cycle and chromatin state.** *Molecular cell*
Daniel, B., Belk, J. A., Meier, S. L., Chen, A. Y., Sandor, K., Zimmerman, Z., Varga, Z., Bene, K., Buquicchio, F. A., Qi, Y., Kitano, H., Wheeler, J. R., Foster, et al
2022
- **Enhanced T cell effector activity by targeting the Mediator kinase module.** *Science (New York, N.Y.)*
Freitas, K. A., Belk, J. A., Sotillo, E., Quinn, P. J., Ramello, M. C., Malipatlolla, M., Daniel, B., Sandor, K., Klysz, D., Bjelajac, J., Xu, P., Burdsall, K. A., Tieu, et al
2022; 378 (6620): eabn5647
- **Divergent clonal differentiation trajectories of T cell exhaustion.** *Nature immunology*
Daniel, B., Yost, K. E., Hsiung, S., Sandor, K., Xia, Y., Qi, Y., Hiam-Galvez, K. J., Black, M., J Raposo, C., Shi, Q., Meier, S. L., Belk, J. A., Giles, et al
2022
- **Genome-wide CRISPR screens of T cell exhaustion identify chromatin remodeling factors that limit T cell persistence.** *Cancer cell*
Belk, J. A., Yao, W., Ly, N., Freitas, K. A., Chen, Y. T., Shi, Q., Valencia, A. M., Shifrut, E., Kale, N., Yost, K. E., Duffy, C. V., Daniel, B., Hwee, et al
2022
- **Recruiting T cells in cancer immunotherapy.** *Science (New York, N.Y.)*
Yost, K. E., Chang, H. Y., Satpathy, A. T.
2021; 372 (6538): 130–31

- **Discovery and functional interrogation of SARS-CoV-2 RNA-host protein interactions.** *Cell*
Flynn, R. A., Belk, J. A., Qi, Y., Yasumoto, Y., Wei, J., Alfajaro, M. M., Shi, Q., Mumbach, M. R., Limaye, A., DeWeirdt, P. C., Schmitz, C. O., Parker, K. R., Woo, et al
2021
- **Single-Cell Analyses Identify Brain Mural Cells Expressing CD19 as Potential Off-Tumor Targets for CAR-T Immunotherapies.** *Cell*
Parker, K. R., Migliorini, D., Perkey, E., Yost, K. E., Bhaduri, A., Bagga, P., Haris, M., Wilson, N. E., Liu, F., Gabunia, K., Scholler, J., Montine, T. J., Bhoj, et al
2020
- **Clonal replacement of tumor-specific T cells following PD-1 blockade.** *Nature medicine*
Yost, K. E., Satpathy, A. T., Wells, D. K., Qi, Y. n., Wang, C. n., Kageyama, R. n., McNamara, K. L., Granja, J. M., Sarin, K. Y., Brown, R. A., Gupta, R. K., Curtis, C. n., Bucktrout, et al
2019
- **Massively parallel single-cell chromatin landscapes of human immune cell development and intratumoral T cell exhaustion.** *Nature biotechnology*
Satpathy, A. T., Granja, J. M., Yost, K. E., Qi, Y. n., Meschi, F. n., McDermott, G. P., Olsen, B. N., Mumbach, M. R., Pierce, S. E., Corces, M. R., Shah, P. n., Bell, J. C., Jhuttu, et al
2019; 37 (8): 925–36
- **Coupled Single-Cell CRISPR Screening and Epigenomic Profiling Reveals Causal Gene Regulatory Networks.** *Cell*
Rubin, A. J., Parker, K. R., Satpathy, A. T., Qi, Y., Wu, B., Ong, A. J., Mumbach, M. R., Ji, A. L., Kim, D. S., Cho, S. W., Zarnegar, B. J., Greenleaf, W. J., Chang, et al
2018
- **Transcript-indexed ATAC-seq for precision immune profiling.** *Nature medicine*
Satpathy, A. T., Saligrama, N. n., Buenrostro, J. D., Wei, Y. n., Wu, B. n., Rubin, A. J., Granja, J. M., Lareau, C. A., Li, R. n., Qi, Y. n., Parker, K. R., Mumbach, M. R., Serratelli, et al
2018
- **Enhancer connectome in primary human cells identifies target genes of disease-associated DNA elements.** *Nature genetics*
Mumbach, M. R., Satpathy, A. T., Boyle, E. A., Dai, C. n., Gowen, B. G., Cho, S. W., Nguyen, M. L., Rubin, A. J., Granja, J. M., Kazane, K. R., Wei, Y. n., Nguyen, T. n., Greenside, et al
2017
- **Notch2-dependent classical dendritic cells orchestrate intestinal immunity to attaching-and-effacing bacterial pathogens** *NATURE IMMUNOLOGY*
Satpathy, A. T., Briseno, C. G., Lee, J. S., Ng, D., Manieri, N. A., Wumesh, K. C., Wu, X., Thomas, S. R., Lee, W., Turkoz, M., McDonald, K. G., Meredith, M. M., Song, et al
2013; 14 (9): 937-?
- **Re(de)fining the dendritic cell lineage** *NATURE IMMUNOLOGY*
Satpathy, A. T., Wu, X., Albring, J. C., Murphy, K. M.
2012; 13 (12): 1145-1154
- **Zbtb46 expression distinguishes classical dendritic cells and their committed progenitors from other immune lineages** *JOURNAL OF EXPERIMENTAL MEDICINE*
Satpathy, A. T., Wumesh, K. C., Albring, J. C., Edelson, B. T., Kretzer, N. M., Bhattacharya, D., Murphy, T. L., Murphy, K. M.
2012; 209 (6): 1135-1152
- **Assessing donor heterogeneity in CAR-T cells with massively parallel mixed lymphocyte reactions**
Wu, L., Mohamad, L., Mantilla, M., Lu, J., Satpathy, A. T., Roth, T.
AMER ASSOC CANCER RESEARCH.2026
- **Comparing bulk and single-cell methodologies and models to profile gene expression, chromatin accessibility and regulatory links in endothelial cells treated with TNFalpha.** *bioRxiv : the preprint server for biology*
Zevounou, J., Lo, K. S., McGinnis, C. S., Satpathy, A. T., Lettre, G.
2026
- **Molecular pixelation of the CAR T cell surface proteome.** *bioRxiv : the preprint server for biology*

- Cesnik, A., Takacsi-Nagy, O., Le, T., Roth, T. L., Satpathy, A. T., Lundberg, E.
2026
- **T cell engagers control solid tumors through clonal replacement and IL2-driven effector differentiation of CD8 T cells.** *bioRxiv : the preprint server for biology*
Obenaus, M., Poupault, C. L., McGinnis, C. S., Prange, C., Jiang, H., Su, L. L., Chen, X., Miao, Z., Muldoon, J. J., Yao, W., Waghray, D., Sun, Q., Eyquem, et al
2026
 - **Erythropoietin receptor on cDC1s dictates immune tolerance.** *Nature*
Zhang, X., McGinnis, C. S., Yu, G., Chen, S., Zheng, P., Schürch, C. M., Hiam-Galvez, K. J., Reticker-Flynn, N. E., Guo, W., Yao, W., Qiu, J., Muselman, A., Linde, et al
2025
 - **A unified genetic perturbation language for human cellular programming.** *bioRxiv : the preprint server for biology*
Hartman, A., Takacsi-Nagy, O., Kernick, C., Theberath, N. E., Lu, J., Wu, L., Mantilla, M., Mitra, S., McClellan, A., Johnson, N., Mohamad, L., Castillo-Colin, L., Hoque, et al
2025
 - **FOXP3 expression depends on cell-type-specific cis-regulatory elements and transcription factor circuitry.** *Immunity*
Umhoefer, J. M., Arce, M. M., Kasinathan, S., Whalen, S., Dajani, R., Subramanya, S., Goudy, L., Belk, J. A., Zhou, R., Pham, M. T., Zhang, W., Hernandez, R., Tran, et al
2025
 - **Hepcidin-Mediated Iron Sequestration Limits Intratumoral CD8+T Cells in Pancreas Adenocarcinoma**
Schoenfeld, J., McGinnis, C., Fu, C., Noel, J., Hernandez, E., Jee, J., Kelsen, D., Satpathy, A. T., Ganz, T., Vardhana, S. A.
WILEY.2025
 - **Engineering T cells with a membrane-tethered version of SLP-76 overcomes antigen-low resistance to CAR T cell therapy.** *Nature cancer*
Rotiroti, M. C., Tousley, A. M., Chu, H., Herrera-Barrera, M., Manousopoulou, A., Kim, W. J., Yin, Y., Parish, T. S., Mitchell, A., Holterhus, M., Rysavy, L. W., Dalton, G. N., Freitas, et al
2025
 - **Scalable transcription factor mapping uncovers the regulatory dynamics of natural and synthetic transcription factors in human T cell states.** *bioRxiv : the preprint server for biology*
Mullins, R. D., Zaretsky, J., Stoller, E., Moore, M., Takacsi-Nagy, O., Shpynov, O., Sampaleanu, R., Roth, T. L., Satpathy, A. T., Mitra, R. D., Puram, S. V.
2025
 - **The transcriptional repressor BLIMP1 enforces TCF-1-dependent and -independent restriction of the memory fate of CD8+ T cells.** *Immunity*
Murphy, M. K., McCullen, M., Deffenbaugh, J. L., Chen, A. Y., Pai, J., Daniel, B., Yousif, A., Raju, S., Hsiung, S., Wang, Z., Ghoneim, H. E., Satpathy, A. T., Colonna, et al
2025
 - **Protein-coding Somatic Genetic Variation in Lymphocytes in Systemic Lupus Erythematosus**
Kasinathan, S., Minh Pham, Satpathy, A.
WILEY.2025: 3302-3303
 - **Massively parallel immunopeptidome by DNA sequencing provides insights into cancer antigen presentation.** *Nature genetics*
Shi, Q., Simon, E. P., Cimen Bozkus, C., Kaminska, A., Velazquez, L., Saxena, M., Zhang, Z., Belk, J. A., Wang, S., Yang, N., Zhang, Y., Kwong, A., Che, et al
2025
 - **Clonal lineage tracing of innate immune cells in human cancer.** *bioRxiv : the preprint server for biology*
Liu, V., Sandor, K., Yan, P. K., Miao, M., Yin, Y., Stickels, R. R., Chen, A. Y., Hiam-Galvez, K., Gutierrez, J., Zhang, W., Sajjath, S. M., Valbuena, R., Wang, et al
2025
 - **Cell cycle-coupled transcriptional network orchestrates human B cell fate bifurcation.** *bioRxiv : the preprint server for biology*
Pease, N. A., Fan, J., Keshari, S., Stratton, J., Gerges, P., Varghese, B. A., Nampoothiri, N. V., McGinnis, C. S., Zhang, W., Gierlack, S. B., Swaminathan, T., Sachan, A., Vijay, et al

2025

- **Clonal tracing with somatic epimutations reveals dynamics of blood ageing** *NATURE*
Scherer, M., Singh, I., Braun, M., Szu-Tu, C., Sanchez Sanchez, P., Lindenhofer, D., Jakobsen, N., Korber, V., Kardorff, M., Nitsch, L., Kautz, P., Ruhle, J., Bianchi, et al
2025
- **Induced B Cell Receptor Diversity Predicts PD-1 Blockade Immunotherapy Response** *PNAS*
Che, Y., Lee, J., Abou-Taleb, F., Rieger, K. E., Satpathy, A. T., Chang, A. S., Chang, H. Y.
2025: e2501269122
- **Induced B cell receptor diversity predicts PD-1 blockade immunotherapy response.** *Proceedings of the National Academy of Sciences of the United States of America*
Che, Y., Lee, J., Abou-Taleb, F., Rieger, K. E., Satpathy, A. T., Chang, A. L., Chang, H. Y.
2025; 122 (18): e2501269122
- **Translation dysregulation in cancer as a source for targetable antigens.** *Cancer cell*
Weller, C., Bartok, O., McGinnis, C. S., Palashati, H., Chang, T. G., Malko, D., Shmueli, M. D., Nagao, A., Hayoun, D., Murayama, A., Sakaguchi, Y., Poulis, P., Khatib, et al
2025
- **Non-viral intron knock-ins for targeted gene integration into human T cells and for T-cell selection.** *Nature biomedical engineering*
Roth, T. L., Lu, J., McClellan, A., Kernick, C., Takacs-Nagy, O., Satpathy, A. T.
2025
- **Functional memory T cells are derived from exhausted clones and expanded by checkpoint blockade.** *bioRxiv : the preprint server for biology*
Raposo, C. J., Yan, P. K., Chen, A. Y., Majidi, S., Hiam-Galvez, K. J., Satpathy, A. T.
2025
- **Temporal Genomic Analysis of Homogeneous Tumor Models Reveals Key Regulators of Immune Evasion in Melanoma.** *Cancer discovery*
Cohen Shvefel, S., Pai, J. A., Cao, Y., Pal, L. R., Bartok, O., Levy, R., Zemanek, M. J., Weller, C., Herzog, E., Yao, W., Hiam-Galvez, K. J., Cheng, K., Yin, et al
2025: OF1-OF25
- **Mechanism-guided engineering of a minimal biological particle for genome editing.** *Proceedings of the National Academy of Sciences of the United States of America*
Ngo, W., Peukes, J., Baldwin, A., Xue, Z. W., Hwang, S., Stickels, R. R., Lin, Z., Satpathy, A. T., Wells, J. A., Schekman, R., Nogales, E., Doudna, J. A.
2025; 122 (1): e2413519121
- **Central control of dynamic gene circuits governs T cell rest and activation.** *Nature*
Arce, M. M., Umhoefer, J. M., Arang, N., Kasinathan, S., Freimer, J. W., Steinhart, Z., Shen, H., Pham, M. T., Ota, M., Wadhera, A., Dajani, R., Dorovskiy, D., Chen, et al
2024
- **Multi-modal analysis reveals tumor and immune features distinguishing EBV-positive and EBV-negative post-transplant lymphoproliferative disorders.** *Cell reports. Medicine*
Toh, J., Reitsma, A. J., Tajima, T., Younes, S. F., Ezeiruaku, C., Jenkins, K. C., Peña, J. K., Zhao, S., Wang, X., Lee, E. Y., Glass, M. C., Kalesinskas, L., Ganesan, et al
2024: 101851
- **Induced B-Cell Receptor Diversity Predicts PD-1 Blockade Immunotherapy Response.** *bioRxiv : the preprint server for biology*
Che, Y., Lee, J., Abou-Taleb, F., Rieger, K. E., Satpathy, A. T., Chang, A. L., Chang, H. Y.
2024
- **Temporal genomic analysis of homogeneous tumor models reveals key regulators of immune evasion in melanoma.** *Cancer discovery*
Cohen Shvefel, S., Pai, J. A., Cao, Y., Pal, L. R., Bartok, O., Levy, R., Zemanek, M. J., Weller, C., Herzog, E., Yao, W., Hiam-Galvez, K. J., Cheng, K., Yin, et al
2024
- **Retinoic acid and TGF- β orchestrate organ-specific programs of tissue residency.** *Immunity*

- Obers, A., Poch, T., Rodrigues, G., Christo, S. N., Gandolfo, L. C., Fonseca, R., Zaid, A., Kuai, J. E., Lai, H., Zareie, P., Yakou, M. H., Dryburgh, L., Burn, et al
2024
- **Deciphering regulation of FOXP3 expression in human conventional T cells.** *bioRxiv : the preprint server for biology*
Umhoefer, J. M., Arce, M. M., Dajani, R., Belk, J. A., Mowery, C. T., Nguyen, V., Gowen, B. G., Simeonov, D. R., Curie, G. L., Corn, J. E., Chang, H. Y., Marson, A.
2024
 - **Deciphering the impact of genomic variation on function.** *Nature*
2024; 633 (8028): 47-57
 - **Mechanism-guided engineering of a minimal biological particle for genome editing.** *bioRxiv : the preprint server for biology*
Ngo, W., Peukes, J. T., Baldwin, A., Xue, Z. W., Hwang, S., Stickels, R. R., Lin, Z., Satpathy, A. T., Wells, J. A., Schekman, R., Nogales, E., Doudna, J. A.
2024
 - **Systematic decoding of cis gene regulation defines context-dependent control of the multi-gene costimulatory receptor locus in human T cells.** *Nature genetics*
Mowery, C. T., Freimer, J. W., Chen, Z., Casaní-Galdón, S., Umhoefer, J. M., Arce, M. M., Gjoni, K., Daniel, B., Sandor, K., Gowen, B. G., Nguyen, V., Simeonov, D. R., Garrido, et al
2024
 - **Direct transposition of native DNA for sensitive multimodal single-molecule sequencing.** *Nature genetics*
Nanda, A. S., Wu, K., Irklyenko, I., Woo, B., Ostrowski, M. S., Clugston, A. S., Sayles, L. C., Xu, L., Satpathy, A. T., Nguyen, H. G., Alejandro Sweet-Cordero, E., Goodarzi, H., Kasinathan, et al
2024
 - **Convergent epigenetic evolution drives relapse in acute myeloid leukemia.** *eLife*
Nuno, K., Azizi, A., Koehnke, T., Lareau, C., Ediriwickrema, A., Corces, M. R., Satpathy, A. T., Majeti, R.
2024; 13
 - **FOXO1 is a master regulator of memory programming in CAR T cells.** *Nature*
Doan, A. E., Mueller, K. P., Chen, A. Y., Rouin, G. T., Chen, Y., Daniel, B., Lattin, J., Markovska, M., Mozarsky, B., Arias-Umana, J., Hapke, R., Jung, I. Y., Wang, et al
2024
 - **Transcript-specific enrichment enables profiling rare cell states via scRNA-seq.** *bioRxiv : the preprint server for biology*
Abay, T., Stickels, R. R., Takizawa, M. T., Nalbant, B. N., Hsieh, Y. H., Hwang, S., Snopkowski, C., Yu, K. K., Abou-Mrad, Z., Tabar, V., Ludwig, L. S., Chaligné, R., Satpathy, et al
2024
 - **Regulation of immune signal integration and memory by inflammation-induced chromosome conformation.** *bioRxiv : the preprint server for biology*
Daniel, B., Chen, A. Y., Sandor, K., Zhang, W., Miao, Z., Lareau, C. A., Yost, K. E., Chang, H. Y., Satpathy, A. T.
2024
 - **Inosine induces stemness features in CAR-T cells and enhances potency.** *Cancer cell*
Klysz, D. D., Fowler, C., Malipatlolla, M., Stuani, L., Freitas, K. A., Chen, Y., Meier, S., Daniel, B., Sandor, K., Xu, P., Huang, J., Labanieh, L., Keerthi, et al
2024
 - **Temporal genomic analysis of melanoma rejection identifies regulators of tumor immune evasion.** *bioRxiv : the preprint server for biology*
Cohen Shvafel, S., Pai, J. A., Cao, Y., Pal, L. R., Levy, R., Yao, W., Cheng, K., Zemanek, M., Bartok, O., Weller, C., Yin, Y., Du, P. P., Yakubovich, et al
2023
 - **FOXO1 is a master regulator of CAR T memory programming.** *Research square*
Doan, A., Mueller, K. P., Chen, A., Rouin, G. T., Daniel, B., Lattin, J., Chen, Y., Mozarsky, B., Markovska, M., Arias-Umana, J., Hapke, R., Jung, I., Xu, et al
2023

- **Convergent Epigenetic Evolution Drives Relapse in Acute Myeloid Leukemia.** *bioRxiv : the preprint server for biology*
Nuno, K. A., Azizi, A., Kohnke, T., Lareau, C. A., Ediwirickrema, A., Ryan Corces, M., Satpathy, A. T., Majeti, R.
2023
- **Mitigation of chromosome loss in clinical CRISPR-Cas9-engineered T cells.** *Cell*
Tsuchida, C. A., Brandes, N., Bueno, R., Trinidad, M., Mazumder, T., Yu, B., Hwang, B., Chang, C., Liu, J., Sun, Y., Hopkins, C. R., Parker, K. R., Qi, et al
2023
- **Modular pooled discovery of synthetic knockin sequences to program durable cell therapies.** *Cell*
Blaeschke, F., Chen, Y. Y., Apathy, R., Daniel, B., Chen, A. Y., Chen, P. A., Sandor, K., Zhang, W., Li, Z., Mowery, C. T., Yamamoto, T. N., Nyberg, W. A., To, et al
2023; 186 (19): 4216-4234.e33
- **Single-cell multi-omics of mitochondrial DNA disorders reveals dynamics of purifying selection across human immune cells.** *Nature genetics*
Lareau, C. A., Dubois, S. M., Buquicchio, F. A., Hsieh, Y. H., Garg, K., Kautz, P., Nitsch, L., Praktijnjo, S. D., Maschmeyer, P., Verboon, J. M., Gutierrez, J. C., Yin, Y., Fiskin, et al
2023
- **Clonal hematopoiesis is associated with protection from Alzheimer's disease.** *Nature medicine*
Bouزيد, H., Belk, J. A., Jan, M., Qi, Y., Sarnowski, C., Wirth, S., Ma, L., Chrostek, M. R., Ahmad, H., Nachun, D., Yao, W., Beiser, A., Bick, et al
2023
- **CD22 CAR T-cell associated hematologic toxicities, endothelial activation and relationship to neurotoxicity.** *Journal for immunotherapy of cancer*
Jess, J., Yates, B., Dulau-Florea, A., Parker, K., Inglefield, J., Lichtenstein, D., Schischlik, F., Ongkeko, M., Wang, Y., Shahani, S., Cullinane, A., Smith, H., Kane, et al
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