



Ansuman Satpathy

Assistant Professor of Pathology

CONTACT INFORMATION

- **Alternate Contact**

Bryan Odom - Administrative Assistant

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Bio

BIO

Dr. Ansuman Satpathy M.D., Ph.D. is an Assistant Professor in the Department of Pathology at Stanford University School of Medicine. He is a member of the Stanford Cancer Institute, the Parker Institute for Cancer Immunotherapy, the Immunology, Cancer Biology, and Biomedical Informatics Programs, Bio-X, and a faculty fellow in ChEM-H. Dr. Satpathy completed an M.D. and Ph.D. in immunology at Washington University in St. Louis, clinical residency in pathology at Stanford Hospital and Clinics, and postdoctoral training in genetics at Stanford University. Dr. Satpathy's research group focuses on developing and applying genome-scale technologies to study fundamental properties of the immune system in health, infection, and cancer.

ACADEMIC APPOINTMENTS

- Assistant 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

- 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)

- Clinical Scientist Career Development Award (K08), National Cancer Institute (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)
- Predoctoral Fellowship, American Heart Association (2012)

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 , Immunology (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 immuno-editing on the heterogeneity and clonal evolution of cancer.

We previously developed genome sequencing technologies that enable epigenetic studies in primary human immune cells from patients: 1) 3D enhancer-promoter interaction profiling (Nat Genet, 2017), 2) paired epigenome and T cell receptor (TCR) profiling in single cells (Nat Med, 2018), 3) paired epigenome and CRISPR profiling in single cells (Cell, 2019), and high-throughput single-cell ATAC-seq in droplets (Nature Biotech, 2019). We used these tools to study fundamental principles of the T cell response to cancer immunotherapy (PD-1 blockade) directly in cancer patient samples (Nature Biotech, 2019; Nat Med, 2019).

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Vandon Duong, Ann Lin

Postdoctoral Faculty Sponsor

Kamir Hiam-Galvez, Chris McGinnis, Laura Maria Moser, Robert Stickels, Vivien Veninga

Doctoral Dissertation Advisor (AC)

Christie Chang, Andy Chen, Vincent Liu, Max Miao, Colin Raposo, Oliver Takacs-Nagy, Pat Yan

Doctoral Dissertation Co-Advisor (AC)

Peter Du

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

Publications

PUBLICATIONS

- **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
- **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., Jhutti, et al

2019; 37 (8): 925–36

- **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
- **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
- **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 Shvefel, 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*
Bouzd, 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
2023; 11 (6)
- **Skin basal cell carcinomas assemble a pro-tumorigenic spatially organized and self-propagating Trem2+ myeloid niche.** *Nature communications*
Haensel, D., Daniel, B., Gaddam, S., Pan, C., Fabo, T., Bjelajac, J., Jussila, A. R., Gonzalez, F., Li, N. Y., Chen, Y., Hou, J., Patel, T., Aasi, et al
2023; 14 (1): 2685
- **Plasticity of clonal memory CD8 T cell differentiation**
Hiam-Galvez, K., Black, M., Raposo, C. J., Satpathy, A. T.
AMER ASSOC IMMUNOLOGISTS.2023
- **Inosine Induces Stemness Features in CAR T cells and Enhances Potency.** *bioRxiv : the preprint server for biology*
Klysz, D. D., Fowler, C., Malipatlolla, M., Stuani, L., Freitas, K. A., Meier, S., Daniel, B., Sandor, K., Xu, P., Huang, J., Labanieh, L., Leruste, A., Bashti, et al
2023
- **Aberrant activation of TCL1A promotes stem cell expansion in clonal haematopoiesis.** *Nature*
Weinstock, J. S., Gopakumar, J., Burugula, B. B., Uddin, M. M., Jahn, N., Belk, J. A., Bouzd, H., Daniel, B., Miao, Z., Ly, N., Mack, T. M., Luna, S. E., Prothro, et al
2023
- **Cis interactions in the Irf8 locus regulate stage-dependent enhancer activation.** *Genes & development*
Liu, T. T., Ou, F., Belk, J. A., Bagadia, P., Anderson, D. A., Durai, V., Yao, W., Satpathy, A. T., Murphy, T. L., Murphy, K. M.
2023
- **Co-opting signalling molecules enables logic-gated control of CAR T cells.** *Nature*
Tousley, A. M., Rotiroti, M. C., Labanieh, L., Rysavy, L. W., Kim, W. J., Lareau, C., Sotillo, E., Weber, E. W., Rietberg, S. P., Dalton, G. N., Yin, Y., Klysz, D., Xu, et al
2023
- **Mitochondrial single-cell ATAC-seq for high-throughput multi-omic detection of mitochondrial genotypes and chromatin accessibility.** *Nature protocols*
Lareau, C. A., Liu, V., Muus, C., Praktijnjo, S. D., Nitsch, L., Kautz, P., Sandor, K., Yin, Y., Gutierrez, J. C., Pelka, K., Satpathy, A. T., Regev, A., Sankaran, et al
2023

- **A Cre-deleter specific for embryo-derived brain macrophages reveals distinct features of microglia and border macrophages.** *Immunity*
Brioschi, S., Belk, J. A., Peng, V., Molgora, M., Rodrigues, P. F., Nguyen, K. M., Wang, S., Du, S., Wang, W. L., Grajales-Reyes, G. E., Ponce, J. M., Yuede, C. M., Li, et al
2023
- **Reinfection with SARS-CoV-2 and Waning Humoral Immunity: A Case Report.** *Vaccines*
Goldman, J. D., Wang, K., Röltgen, K., Nielsen, S. C., Roach, J. C., Naccache, S. N., Yang, F., Wirz, O. F., Yost, K. E., Lee, J. Y., Chun, K., Wrin, T., Petropoulos, et al
2022; 11 (1)
- **Engineered cell entry links receptor biology with single-cell genomics.** *Cell*
Yu, B., Shi, Q., Belk, J. A., Yost, K. E., Parker, K. R., Li, R., Liu, B. B., Huang, H., Lingwood, D., Greenleaf, W. J., Davis, M. M., Satpathy, A. T., Chang, et al
2022
- **Lineage plasticity dictates responsiveness to anti-GD2 therapy in neuroblastoma.**
Mabe, N. W., Huang, M., Schaefer, D. A., Dalton, G. N., Digiovanni, G., Alexe, G., Geraghty, A. C., Khalid, D., Mader, M. M., Sheffer, M., Linde, M. H., Ly, N., Rotiroti, et al
AMER ASSOC CANCER RESEARCH.2022
- **MARCH1 Controls an Exhaustion-like Program of Effector CD4+ T Cells Promoting Allergic Airway Inflammation.** *ImmunoHorizons*
Castellanos, C. A., Hiam-Galvez, K. J., Ishido, S., Satpathy, A. T., Shin, J.
2022; 6 (9): 684-692
- **A RORgammat+ cell instructs gut microbiota-specific Treg cell differentiation.** *Nature*
Kedmi, R., Najjar, T. A., Mesa, K. R., Grayson, A., Kroehling, L., Hao, Y., Hao, S., Pokrovskii, M., Xu, M., Talbot, J., Wang, J., Germino, J., Lareau, et al
2022
- **RASA2 ablation in T cells boosts antigen sensitivity and long-term function.** *Nature*
Carnevale, J., Shifrut, E., Kale, N., Nyberg, W. A., Blaeschke, F., Chen, Y. Y., Li, Z., Bapat, S. P., Diolaiti, M. E., O'Leary, P., Vedova, S., Belk, J., Daniel, et al
2022
- **Runx3 drives a CD8+ T cell tissue residency program that is absent in CD4+ T cells.** *Nature immunology*
Fonseca, R., Burn, T. N., Gandolfo, L. C., Devi, S., Park, S. L., Obers, A., Evrard, M., Christo, S. N., Buquicchio, F. A., Lareau, C. A., McDonald, K. M., Sandford, S. K., Zamudio, et al
2022
- **Transition to a mesenchymal state in neuroblastoma confers resistance to anti-GD2 antibody via reduced expression of ST8SIA1.** *Nature cancer*
Mabe, N. W., Huang, M., Dalton, G. N., Alexe, G., Schaefer, D. A., Geraghty, A. C., Robichaud, A. L., Conway, A. S., Khalid, D., Mader, M. M., Belk, J. A., Ross, K. N., Sheffer, et al
2022
- **Enhanced effector activity of mediator CDK8 kinase module deficient CAR-T Cells**
Freitas, K. A., Belk, J. A., Sotillo, E., Daniel, B., Sandor, K., Klysz, D., Duong, V. T., Xu, P., Malipatlolla, M., Weber, E. W., Majzner, R. G., Chang, H. Y., Satpathy, et al
AMER ASSOC CANCER RESEARCH.2022
- **Single-cell multi-omic profiling and clonal tracing of the human gynecological tumor microenvironment**
Liu, V., Sandor, K., Daniel, B., Berthoin, L., Sabri, S., Panagiotopoulou, S., Yin, Y., Hiam-Galvez, K., Sit, R., Fan, Z., Galvin, B., Khan, O., Bezman, et al
AMER ASSOC CANCER RESEARCH.2022
- **Epigenetic regulation of T cell exhaustion.** *Nature immunology*
Belk, J. A., Daniel, B., Satpathy, A. T.
2022
- **BCL6-dependent TCF-1+ progenitor cells maintain effector and helper CD4+ T cell responses to persistent antigen.** *Immunity*
Xia, Y., Sandor, K., Pai, J. A., Daniel, B., Raju, S., Wu, R., Hsiung, S., Qi, Y., Yangdon, T., Okamoto, M., Chou, C., Hiam-Galvez, K. J., Schreiber, et al
2022
- **Spatiotemporal co-dependency between macrophages and exhausted CD8+ T cells in cancer.** *Cancer cell*
Kersten, K., Hu, K. H., Combes, A. J., Samad, B., Harwin, T., Ray, A., Rao, A. A., Cai, E., Marchuk, K., Artichoker, J., Courau, T., Shi, Q., Belk, et al

2022

- **Lymph node colonization induces tumor-immune tolerance to promote distant metastasis.** *Cell*
Reticker-Flynn, N. E., Zhang, W., Belk, J. A., Basto, P. A., Escalante, N. K., Pilarowski, G. O., Bejnood, A., Martins, M. M., Kenkel, J. A., Linde, I. L., Bagchi, S., Yuan, R., Chang, et al
2022
- **BCL6-dependent TCF-1+progenitor cells maintain effector and helper CD4 T cell responses to persistent antigen**
Xia, Y., Sandor, K., Pai, J. A., Daniel, B., Raju, S., Wu, R., Hsiung, S., Qi, Y., Yangdon, T., Okamoto, M., Schreiber, R. D., Murphy, K. M., Satpathy, et al
AMER ASSOC IMMUNOLOGISTS.2022
- **Enhanced safety and efficacy of protease-regulated CAR-T cell receptors.** *Cell*
Labanieh, L., Majzner, R. G., Klysz, D., Sotillo, E., Fisher, C. J., Vilches-Moure, J. G., Pacheco, K. Z., Malipatlolla, M., Xu, P., Hui, J. H., Murty, T., Theruvath, J., Mehta, et al
2022
- **KIR+CD8+ T cells suppress pathogenic T cells and are active in autoimmune diseases and COVID-19.** *Science (New York, N.Y.)*
Li, J., Zaslavsky, M., Su, Y., Guo, J., Sikora, M. J., van Unen, V., Christophersen, A., Chiou, S., Chen, L., Li, J., Ji, X., Wilhelmy, J., McSween, et al
2022: eabi9591
- **Mitochondrial variant enrichment from high-throughput single-cell RNA sequencing resolves clonal populations.** *Nature biotechnology*
Miller, T. E., Lareau, C. A., Verga, J. A., DePasquale, E. A., Liu, V., Ssozi, D., Sandor, K., Yin, Y., Ludwig, L. S., El Farran, C. A., Morgan, D. M., Satpathy, A. T., Griffin, et al
2022
- **Bystander T cells in cancer immunology and therapy.** *Nature cancer*
Meier, S. L., Satpathy, A. T., Wells, D. K.
2022; 3 (2): 143-155
- **GPC2-CAR T cells tuned for low antigen density mediate potent activity against neuroblastoma without toxicity** *CANCER CELL*
Heitzeneder, S., Bosse, K. R., Zhu, Z., Zhelev, D., Majzner, R. G., Radosevich, M. T., Dhingra, S., Sotillo, E., Buongervino, S., Pascual-Pasto, G., Garrigan, E., Xu, P., Huang, et al
2022; 40 (1): 53-+
- **GPC2-CAR T cells tuned for low antigen density mediate potent activity against neuroblastoma without toxicity.** *Cancer cell*
Heitzeneder, S., Bosse, K. R., Zhu, Z., Zhelev, D., Majzner, R. G., Radosevich, M. T., Dhingra, S., Sotillo, E., Buongervino, S., Pascual-Pasto, G., Garrigan, E., Xu, P., Huang, et al
1800
- **Charting the tumor antigen maps drawn by single-cell genomics.** *Cancer cell*
Lareau, C. A., Parker, K. R., Satpathy, A. T.
1800; 39 (12): 1553-1557
- **Toward a better understanding of T cells in cancer** *CANCER CELL*
Oh, D. Y., Fong, L., Newell, E. W., Turk, M., Chi, H., Chang, H. Y., Satpathy, A. T., Fairfax, B., Silva-Santos, B., Lantz, O.
2021; 39 (12): 1549-1552
- **ecDNA hubs drive cooperative intermolecular oncogene expression.** *Nature*
Hung, K. L., Yost, K. E., Xie, L., Shi, Q., Helmsauer, K., Luebeck, J., Schopflin, R., Lange, J. T., Chamorro Gonzalez, R., Weiser, N. E., Chen, C., Valieva, M. E., Wong, et al
2021
- **Clonal Hematopoiesis is Associated with Reduced Risk of Alzheimer's Disease**
Bouzid, H., Belk, J., Jan, M., Qi, Y., Sarnowski, C., Wirth, S., Ma, L., Chrostek, M., Ahmad, H., Nachun, D., Yao, W., Beiser, A., Bick, et al
AMER SOC HEMATOLOGY.2021
- **Single-cell multiomics defines tolerogenic extrathymic Aire-expressing populations with unique homology to thymic epithelium.** *Science immunology*
Wang, J., Lareau, C. A., Bautista, J. L., Gupta, A. R., Sandor, K., Germino, J., Yin, Y., Arvedson, M. P., Reeder, G. C., Cramer, N. T., Xie, F., Ntranos, V., Satpathy, et al
2021; 6 (65): eabl5053

- **Combined presentation and immunogenicity analysis reveals a recurrent RAS.Q61K neoantigen in melanoma.** *The Journal of clinical investigation*
Peri, A., Greenstein, E., Alon, M., Pai, J. A., Dingjan, T., Reich-Zeliger, S., Barnea, E., Barbolin, C., Levy, R., Arnedo-Pac, C., Kalaora, S., Dassa, B., Feldmesser, et al
2021; 131 (20)
- **Archetypes of checkpoint-responsive immunity.** *Trends in immunology*
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