

Stanford



Caleb Lareau

Instructor, Pathology

 Curriculum Vitae available Online

Bio

BIO

I am a scientist with expertise in single-cell genomics, immunology, and molecular genetics. I am passionate about the development and application of new technologies to study human disease and design new therapeutic interventions. My research focuses on how cells evolve within an individual's lifetime from molecular triggers, including somatic mutations and exposures to pathogens, and how these can lead to the predisposition of age-associated diseases.

ACADEMIC APPOINTMENTS

- Instructor, Pathology

HONORS AND AWARDS

- 30 Under 30- Science, Forbes (2022)
- K99/R00 Pathway to Independence Award, National Human Genome Research Institute (2022)
- STAT Wunderkind, STAT News (2022)
- Parker Scholar, Parker Institute for Cancer Immunotherapy (2021)
- Stanford Science Fellow, Stanford University (2020)
- NIH Ruth L. Kirschstein National Research Service Award (F31), National Cancer Institute (2018)
- NSF GRFP, National Science Foundation (2015)
- DAAD Rise Fellow, Deutscher Akademischer Austauschdienst (2013, 2014)
- Barry M. Goldwater Scholar, Goldwater Foundation (2013)

PROFESSIONAL EDUCATION

- PhD, Harvard Medical School , Biological and Biomedical Sciences (2020)
- Bachelor of Science, University of Tulsa , Biochemistry and Mathematics (2015)

LINKS

- Twitter: <https://twitter.com/caleblareau>
- Github: <https://github.com/caleblareau>

Teaching

COURSES

2022-23

- Cell, Gene, and Immune Therapies: BIOS 210 (Spr)

Publications

PUBLICATIONS

- **Mitochondrial DNA mutations as natural barcodes for lineage tracing of murine tumor models.** *Cancer research*
Penter, L., Ten Hacken, E., Southard, J., Lareau, C., Ludwig, L. S., Li, S., Neuberg, D. S., Livak, K. J., Wu, C. J.
2022
- **BAF complex maintains glioma stem cells in pediatric H3K27M-glioma.** *Cancer discovery*
Panditharatna, E., G Marques, J., Wang, T., Trissal, M. C., Liu, I., Jiang, L., Beck, A., Groves, A., Dharia, N. V., Li, D., Hoffman, S. E., Kugener, G., Shaw, et al
2022
- **Clonal expansion and epigenetic inheritance of long-lasting NK cell memory.** *Nature immunology*
Ruckert, T., Lareau, C. A., Mashreghi, M., Ludwig, L. S., Romagnani, C.
2022
- **Editorial: Lineage tracing, hematopoietic stem cell and immune cell dynamics.** *Frontiers in immunology*
Lareau, C. A., Romagnani, C., Ludwig, L. S.
2022; 13: 1062415
- **Functional inference of gene regulation using single-cell multi-omics.** *Cell genomics*
Kartha, V. K., Duarte, F. M., Hu, Y., Ma, S., Chew, J. G., Lareau, C. A., Earl, A., Burkett, Z. D., Kohlway, A. S., Lebofsky, R., Buenrostro, J. D.
2022; 2 (9)
- **A RORgammat+ cell instructs gut microbiota-specific Treg cell differentiation.** *Nature*
Kedmi, R., Najar, 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
- **Advancing T cell-based cancer therapy with single-cell technologies.** *Nature medicine*
Bucktrout, S. L., Banovich, N. E., Butterfield, L. H., Cimen-Bozkus, C., Giles, J. R., Good, Z., Goodman, D., Jonsson, V. D., Lareau, C., Marson, A., Maurer, D. M., Munson, P. V., Stubbington, et al
2022; 28 (9): 1761-1764
- **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
- **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
- **JAK inhibition in a patient with a STAT1 gain-of-function variant reveals STAT1 dysregulation as a common feature of aplastic anemia** *MED*
Rosenberg, J. M., Peters, J. M., Hughes, T., Lareau, C. A., Ludwig, L. S., Massoth, L. R., Austin-Tse, C., Rehm, H. L., Bryson, B., Chen, Y., Regev, A., Shalek, A. K., Fortune, et al
2022; 3 (1): 42-+
- **JAK inhibition in a patient with a STAT1 gain-of-function variant reveals STAT1 dysregulation as a common feature of aplastic anemia.** *Med (New York, N.Y.)*
Rosenberg, J. M., Peters, J. M., Hughes, T., Lareau, C. A., Ludwig, L. S., Massoth, L. R., Austin-Tse, C., Rehm, H. L., Bryson, B., Chen, Y. B., Regev, A., Shalek, A. K., Fortune, et al
2022; 3 (1): 42-57.e5
- **Functional dissection of inherited non-coding variation influencing multiple myeloma risk.** *Nature communications*
Ajore, R., Niroula, A., Pertesi, M., Cafaro, C., Thodberg, M., Went, M., Bao, E. L., Duran-Lozano, L., Lopez de Lapuente Portilla, A., Olafsdottir, T., Ugidos-Damboriena, N., Magnusson, O., Samur, et al
1800; 13 (1): 151

- **A Congenital Anemia Reveals Distinct Targeting Mechanisms for Master Transcription Factor GATA1.** *Blood*
Ludwig, L., Lareau, C. A., Bao, E. L., Liu, N., Utsugisawa, T., Tseng, A. M., Myers, S. A., Verboon, J. M., Ulirsch, J. C., Luo, W., Muus, C., Fiorini, C., Olive, et al
2022
- **Spatial genomics enables multi-modal study of clonal heterogeneity in tissues.** *Nature*
Zhao, T., Chiang, Z. D., Morriss, J. W., LaFave, L. M., Murray, E. M., Del Priore, I., Meli, K., Lareau, C. A., Nadaf, N. M., Li, J., Earl, A. S., Macosko, E. Z., Jacks, 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
- **Mitochondrial DNA Mutations Distinguish Individual Donor- and Recipient-Derived Immune Cells Following Matched Unrelated Allogeneic Stem Cell Transplantation**
Penter, L., Southard, J., Li, S., Lareau, C. A., Ludwig, L. S., Cieri, N., Maurer, A., DeAngelo, D. J., Ranasinghe, S., Neuberger, D. S., Sankaran, V. G., Soiffer, R. J., Livak, 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
- **Single-cell chromatin state analysis with Signac.** *Nature methods*
Stuart, T., Srivastava, A., Madad, S., Lareau, C. A., Satija, R.
2021; 18 (11): 1333-1341
- **Single-cell profiling of proteins and chromatin accessibility using PHAGE-ATAC.** *Nature biotechnology*
Fiskin, E., Lareau, C. A., Ludwig, L. S., Eraslan, G., Liu, F., Ring, A. M., Xavier, R. J., Regev, A.
2021
- **STAG2 loss rewires oncogenic and developmental programs to promote metastasis in Ewing sarcoma.** *Cancer cell*
Adane, B., Alexe, G., Seong, B. K., Lu, D., Hwang, E. E., Hnisz, D., Lareau, C. A., Ross, L., Lin, S., Dela Cruz, F. S., Richardson, M., Weintraub, A. S., Wang, et al
2021; 39 (6): 827
- **Longitudinal single-cell dynamics of chromatin accessibility and mitochondrial mutations in chronic lymphocytic leukemia mirror disease history.** *Cancer discovery*
Penter, L., Gohil, S. H., Lareau, C., Ludwig, L. S., Parry, E. M., Huang, T., Li, S., Zhang, W., Livitz, D., Leshchiner, I., Parida, L., Getz, G., Rassenti, et al
2021
- **A microRNA expression and regulatory element activity atlas of the mouse immune system.** *Nature immunology*
Rose, S. A., Wroblewska, A., Dhainaut, M., Yoshida, H., Shaffer, J. M., Bektsev, A., Ben-Zvi, B., Rhoads, A., Kim, E. Y., Yu, B., Lavin, Y., Merad, M., Buenrostro, et al
2021
- **Scalable, multimodal profiling of chromatin accessibility, gene expression and protein levels in single cells.** *Nature biotechnology*
Mimitou, E. P., Lareau, C. A., Chen, K. Y., Zorzetto-Fernandes, A. L., Hao, Y., Takeshima, Y., Luo, W., Huang, T., Yeung, B. Z., Papalex, E., Thakore, P. I., Kibayashi, T., Wing, et al
2021
- **The neutrotime transcriptional signature defines a single continuum of neutrophils across biological compartments.** *Nature communications*
Grieshaber-Bouyer, R., Radtke, F. A., Cunin, P., Stifano, G., Levescot, A., Vijaykumar, B., Nelson-Maney, N., Blaustein, R. B., Monach, P. A., Nigrovic, P. A., ImmGen Consortium, Aguilar, O., Allan, R., et al
2021; 12 (1): 2856
- **Distinct Foxp3 enhancer elements coordinate development, maintenance, and function of regulatory T cells.** *Immunity*
Kawakami, R. n., Kitagawa, Y. n., Chen, K. Y., Arai, M. n., Ohara, D. n., Nakamura, Y. n., Yasuda, K. n., Osaki, M. n., Mikami, N. n., Lareau, C. A., Watanabe, H. n., Kondoh, G. n., Hirota, et al

2021

- **Integrated single-cell transcriptomics and epigenomics reveals strong germinal center-associated etiology of autoimmune risk loci.** *Science immunology*
King, H. W., Wells, K. L., Shipony, Z., Kathiria, A. S., Wagar, L. E., Lareau, C., Orban, N., Capasso, R., Davis, M. M., Steinmetz, L. M., James, L. K., Greenleaf, W. J.
2021; 6 (64): eabh3768
- **The SARS-CoV-2 RNA-protein interactome in infected human cells.** *Nature microbiology*
Schmidt, N., Lareau, C. A., Keshishian, H., Ganskih, S., Schneider, C., Hennig, T., Melanson, R., Werner, S., Wei, Y., Zimmer, M., Ade, J., Kirschner, L., Zielinski, et al
2020
- **Chromatin Potential Identified by Shared Single-Cell Profiling of RNA and Chromatin.** *Cell*
Ma, S., Zhang, B., LaFave, L. M., Earl, A. S., Chiang, Z., Hu, Y., Ding, J., Brack, A., Kartha, V. K., Tay, T., Law, T., Lareau, C., Hsu, et al
2020
- **Inherited myeloproliferative neoplasm risk affects haematopoietic stem cells.** *Nature*
Bao, E. L., Nandakumar, S. K., Liao, X., Bick, A. G., Karjalainen, J., Tabaka, M., Gan, O. I., Havulinna, A. S., Kiiskinen, T. T., Lareau, C. A., de Lapuente Portilla, A. L., Li, B., Emdin, et al
2020
- **The Polygenic and Monogenic Basis of Blood Traits and Diseases.** *Cell*
Vuckovic, D., Bao, E. L., Akbari, P., Lareau, C. A., Mousas, A., Jiang, T., Chen, M., Raffield, L. M., Tardaguila, M., Huffman, J. E., Ritchie, S. C., Megy, K., Ponstingl, et al
2020; 182 (5): 1214
- **Trans-ethnic and Ancestry-Specific Blood-Cell Genetics in 746,667 Individuals from 5 Global Populations.** *Cell*
Chen, M., Raffield, L. M., Mousas, A., Sakaue, S., Huffman, J. E., Moscati, A., Trivedi, B., Jiang, T., Akbari, P., Vuckovic, D., Bao, E. L., Zhong, X., Manansala, et al
2020; 182 (5): 1198
- **Epigenomic State Transitions Characterize Tumor Progression in Mouse Lung Adenocarcinoma.** *Cancer cell*
LaFave, L. M., Kartha, V. K., Ma, S., Meli, K., Del Priore, I., Lareau, C., Naranjo, S., Westcott, P. M., Duarte, F. M., Sankar, V., Chiang, Z., Brack, A., Law, et al
2020; 38 (2): 212
- **A dual-deaminase CRISPR base editor enables concurrent adenine and cytosine editing** *NATURE BIOTECHNOLOGY*
Grunewald, J., Zhou, R., Lareau, C. A., Garcia, S. P., Iyer, S., Miller, B. R., Langner, L. M., Hsu, J. Y., Aryee, M. J., Joung, J.
2020; 38 (7): 861–U27
- **Prioritizing disease and trait causal variants at the TNFAIP3 locus using functional and genomic features** *NATURE COMMUNICATIONS*
Ray, J. P., de Boer, C. G., Fulco, C. P., Lareau, C. A., Kanai, M., Ulirsch, J. C., Tewhey, R., Ludwig, L. S., Reilly, S. K., Bergman, D. T., Engreitz, J. M., Issner, R., Finucane, et al
2020; 11 (1): 1237
- **Inference and effects of barcode multiplets in droplet-based single-cell assays** *NATURE COMMUNICATIONS*
Lareau, C. A., Ma, S., Duarte, F. M., Buenrostro, J. D.
2020; 11 (1): 866
- **Control of human hemoglobin switching by LIN28B-mediated regulation of BCL11A translation** *NATURE GENETICS*
Basak, A., Munschauer, M., Lareau, C. A., Montbleau, K. E., Ulirsch, J. C., Hartigan, C. R., Schenone, M., Lian, J., Wang, Y., Huang, Y., Wu, X., Gehrke, L., Rice, et al
2020; 52 (2): 138+
- **An old BATF's new T-ricks.** *Nature immunology*
Lareau, C. A., Satpathy, A. T.
2020
- **Purifying Selection against Pathogenic Mitochondrial DNA in Human T Cells.** *The New England journal of medicine*
Walker, M. A., Lareau, C. A., Ludwig, L. S., Karaa, A. n., Sankaran, V. G., Regev, A. n., Mootha, V. K.
2020

- **Massively parallel single-cell mitochondrial DNA genotyping and chromatin profiling.** *Nature biotechnology*
Lareau, C. A., Ludwig, L. S., Muus, C. n., Gohil, S. H., Zhao, T. n., Chiang, Z. n., Pelka, K. n., Verboon, J. M., Luo, W. n., Christian, E. n., Rosebrock, D. n., Getz, G. n., Boland, et al
2020
- **Single Cell Transcriptomics Implicate Novel Monocyte and T Cell Immune Dysregulation in Sarcoidosis.** *Frontiers in immunology*
Garman, L., Pelikan, R. C., Rasmussen, A., Lareau, C. A., Savoy, K. A., Deshmukh, U. S., Bagavant, H., Levin, A. M., Daouk, S., Drake, W. P., Montgomery, C. G.
2020; 11: 567342
- **Large-Scale Topological Changes Restrain Malignant Progression in Colorectal Cancer.** *Cell*
Johnstone, S. E., Reyes, A. n., Qi, Y. n., Adriaens, C. n., Hegazi, E. n., Pelka, K. n., Chen, J. H., Zou, L. S., Drier, Y. n., Hecht, V. n., Shores, N. n., Selig, M. K., Lareau, et al
2020
- **Longitudinal assessment of clonal mosaicism in human hematopoiesis via mitochondrial mutation tracking** *BLOOD ADVANCES*
Lareau, C. A., Ludwig, L. S., Sankaran, V. G.
2019; 3 (24): 4161–65
- **Activity-by-contact model of enhancer-promoter regulation from thousands of CRISPR perturbations** *NATURE GENETICS*
Fulco, C. P., Nasser, J., Jones, T. R., Munson, G., Bergman, D. T., Subramanian, V., Grossman, S. R., Anyoha, R., Doughty, B. R., Patwardhan, T. A., Nguyen, T. H., Kane, M., Perez, et al
2019; 51 (12): 1664–+
- **Assessment of computational methods for the analysis of single-cell ATAC-seq data** *GENOME BIOLOGY*
Chen, H., Lareau, C. A., Andreani, T., Vinyard, M. E., Garcia, S. P., Clement, K., Andrade-Navarro, M., Buenrostro, J. D., Pinello, L.
2019; 20 (1): 241
- **CRISPR DNA base editors with reduced RNA off-target and self-editing activities** *NATURE BIOTECHNOLOGY*
Grunewald, J., Zhou, R., Iyer, S., Lareau, C. A., Garcia, S. P., Aryee, M. J., Joung, J.
2019; 37 (9): 1041–+
- **Droplet-based combinatorial indexing for massive-scale single-cell chromatin accessibility** *NATURE BIOTECHNOLOGY*
Lareau, C. A., Duarte, F. M., Chew, J. G., Kartha, V. K., Burkett, Z. D., Kohlway, A. S., Pokholok, D., Aryee, M. J., Steemers, F. J., Lebofsky, R., Buenrostro, J. D.
2019; 37 (8): 916–+
- **Transcriptional States and Chromatin Accessibility Underlying Human Erythropoiesis** *CELL REPORTS*
Ludwig, L. S., Lareau, C. A., Bao, E. L., Nandakumar, S. K., Muus, C., Ulirsch, J. C., Chowdhary, K., Buenrostro, J. D., Mohandas, N., An, X., Aryee, M. J., Regev, A., Sankaran, et al
2019; 27 (11): 3228–+
- **Transcriptome-wide off-target RNA editing induced by CRISPR-guided DNA base editors** *NATURE*
Grunewald, J., Zhou, R., Garcia, S. P., Iyer, S., Lareau, C. A., Aryee, M. J., Joung, J.
2019; 569 (7756): 433–+
- **Gene-centric functional dissection of human genetic variation uncovers regulators of hematopoiesis** *ELIFE*
Nandakumar, S. K., McFarland, S. K., Mateyka, L. M., Lareau, C. A., Ulirsch, J. C., Ludwig, L. S., Agarwal, G., Engreitz, J. M., Przychodzen, B., McConkey, M., Cowley, G. S., Doench, J. G., Maciejewski, et al
2019; 8
- **Impaired human hematopoiesis due to a cryptic intronic GATA1 splicing mutation** *JOURNAL OF EXPERIMENTAL MEDICINE*
Abdulhay, N. J., Fiorini, C., Verboon, J. M., Ludwig, L. S., Ulirsch, J. C., Zieger, B., Lareau, C. A., Mi, X., Roy, A., Obeng, E. A., Erlacher, M., Gupta, N., Gabriel, et al
2019; 216 (5): 1050–60
- **Heritability of fetal hemoglobin, white cell count, and other clinical traits from a sickle cell disease family cohort** *AMERICAN JOURNAL OF HEMATOLOGY*
Bao, E. L., Lareau, C. A., Brugnara, C., Fulcher, I. R., Barau, C., Moutereau, S., Habibi, A., Badaoui, B., Berkenou, J., Bartolucci, P., Galacteros, F., Platt, O. S., Mahaney, et al
2019; 94 (5): 522–27

- **Single-cell trajectories reconstruction, exploration and mapping of omics data with STREAM** *NATURE COMMUNICATIONS*
Chen, H., Albergante, L., Hsu, J. Y., Lareau, C. A., Lo Bosco, G., Guan, J., Zhou, S., Gorban, A. N., Bauer, D. E., Aryee, M. J., Langenau, D. M., Zinovyev, A., Buenrostro, et al
2019; 10: 1903
- **Novel CRISPR Cytosine Base Editors with Minimized Off-Target Effects and Improved Editing Properties**
Grunewald, J., Zhou, R., Garcia, S. P., Iyer, S., Lareau, C. A., Aryee, M. J., Joung, J.
CELL PRESS.2019: 295
- **The ATPase module of mammalian SWI/SNF family complexes mediates subcomplex identity and catalytic activity-independent genomic targeting** *NATURE GENETICS*
Pan, J., McKenzie, Z. M., D'Avino, A. R., Mashtalir, N., Lareau, C. A., St Pierre, R., Wang, L., Shilatifard, A., Kadoch, C.
2019; 51 (4): 618+
- **Interrogation of human hematopoiesis at single-cell and single-variant resolution** *NATURE GENETICS*
Ulirsch, J. C., Lareau, C. A., Bao, E. L., Ludwig, L. S., Guo, M. H., Benner, C., Satpathy, A. T., Kartha, V. K., Salem, R. M., Hirschhorn, J. N., Finucane, H. K., Aryee, M. J., Buenrostro, et al
2019; 51 (4): 683+
- **Lineage Tracing in Humans Enabled by Mitochondrial Mutations and Single-Cell Genomics** *CELL*
Ludwig, L. S., Lareau, C. A., Ulirsch, J. C., Christian, E., Muus, C., Li, L. H., Pelka, K., Ge, W., Oren, Y., Brack, A., Law, T., Rodman, C., Chen, et al
2019; 176 (6): 1325+
- **The cis-Regulatory Atlas of the Mouse Immune System** *CELL*
Yoshida, H., Lareau, C. A., Ramirez, R. N., Rose, S. A., Maier, B., Wroblewska, A., Desland, F., Chudnovskiy, A., Mortha, A., Dominguez, C., Tellier, J., Kim, E., Dwyer, et al
2019; 176 (4): 897+
- **Preprocessing and Computational Analysis of Single-Cell Epigenomic Datasets.** *Methods in molecular biology (Clifton, N.J.)*
Lareau, C., Kangeyan, D., Aryee, M. J.
2019; 1935: 187–202
- **A non-canonical SWI/SNF complex is a synthetic lethal target in cancers driven by BAF complex perturbation** *NATURE CELL BIOLOGY*
Michel, B. C., D'Avino, A. R., Cassel, S. H., Mashtalir, N., McKenzie, Z. M., McBride, M. J., Valencia, A. M., Zhou, Q., Bocker, M., Soares, L. M., Pan, J., Remillard, D. I., Lareau, et al
2018; 20 (12): 1410+
- **Enhancer histone-QTLs are enriched on autoimmune risk haplotypes and influence gene expression within chromatin networks** *NATURE COMMUNICATIONS*
Pelikan, R. C., Kelly, J. A., Fu, Y., Lareau, C. A., Tessneer, K. L., Wiley, G. B., Wiley, M. M., Glenn, S. B., Harley, J. B., Guthridge, J. M., James, J. A., Aryee, M. J., Montgomery, et al
2018; 9: 2905
- **Integrated Single-Cell Analysis Maps the Continuous Regulatory Landscape of Human Hematopoietic Differentiation** *CELL*
Buenrostro, J. D., Corces, M., Lareau, C. A., Wu, B., Schep, A. N., Aryee, M. J., Majeti, R., Chang, H. Y., Greenleaf, W. J.
2018; 173 (6): 1535+
- **Heritability enrichment of specifically expressed genes identifies disease-relevant tissues and cell types** *NATURE GENETICS*
Finucane, H. K., Reshef, Y. A., Anttila, V., Slowikowski, K., Gusev, A., Byrnes, A., Gazal, S., Loh, P., Lareau, C., Shores, N., Genovese, G., Saunders, A., Macosko, et al
2018; 50 (4): 621+
- **Response to "Unexpected mutations after CRISPR-Cas9 editing in vivo"** *NATURE METHODS*
Lareau, C. A., Clement, K., Hsu, J. Y., Pattanayak, V., Joung, J., Aryee, M. J., Pinello, L.
2018; 15 (4): 238–39
- **hichipper: a preprocessing pipeline for calling DNA loops from HiChIP data** *NATURE METHODS*
Lareau, C. A., Aryee, M. J.
2018; 15 (3): 155–56
- **diffloop: a computational framework for identifying and analyzing differential DNA loops from sequencing data** *BIOINFORMATICS*

Lareau, C. A., Aryee, M. J.
2018; 34 (4): 672–74

- **Common genes associated with antidepressant response in mouse and man identify key role of glucocorticoid receptor sensitivity** *PLOS BIOLOGY*
Carrillo-Roa, T., Labermaier, C., Weber, P., Herzog, D. P., Lareau, C., Santarelli, S., Wagner, K. V., Rex-Haffner, M., Harbich, D., Scharf, S. H., Nemeroff, C. B., Dunlop, B. W., Craighead, et al
2017; 15 (12): e2002690
- **A B Cell Regulome Links Notch to Downstream Oncogenic Pathways in Small B Cell Lymphomas** *CELL REPORTS*
Ryan, R. H., Petrovic, J., Rausch, D. M., Zhou, Y., Lareau, C. A., Kluk, M. J., Christie, A. L., Lee, W. Y., Tarjan, D. R., Guo, B., Donohue, L. H., Gillespie, S. M., Nardi, et al
2017; 21 (3): 784–97
- **An Epigenome-Guided Approach to Causal Variant Discovery in Autoimmune Disease**
Pelikan, R. C., Kelly, J. A., Fu, Y., Lareau, C., Wiley, G. B., Glenn, S., Aryee, M., Montgomery, C., Gaffney, P.
WILEY.2017
- **Dissecting hematopoietic and renal cell heterogeneity in adult zebrafish at single-cell resolution using RNA sequencing** *JOURNAL OF EXPERIMENTAL MEDICINE*
Tang, Q., Iyer, S., Lobbardi, R., Moore, J. C., Chen, H., Lareau, C., Hebert, C., Shaw, M. L., Neftel, C., Suva, M. L., Ceol, C. J., Bernards, A., Aryee, et al
2017; 214 (10): 2875–87
- **Confounding in ex vivo models of Diamond-Blackfan anemia** *BLOOD*
Ulirsch, J. C., Lareau, C., Ludwig, L. S., Mohandas, N., Nathan, D. G., Sankaran, V. G.
2017; 130 (9): 1165–68
- **Notch-Regulated Enhancers in B-Cell Lymphoma Activate MYC and Potentiate B-Cell Receptor Signaling**
Ryan, R. H., Petrovic, J., Rausch, D., Lareau, C., Lee, W., Donohue, L., Christie, A. L., Gillespie, S., Kluk, M. J., Nardi, V., Faryabi, R. B., Hochberg, E. P., Weinstock, et al
AMER SOC HEMATOLOGY.2016
- **Computationally Efficient Solutions for Functionalizing Common Variants in Three-Dimensional Models**
Lareau, C. A., DeWeese, C. F., White, B. C., McKinney, B. A., Montgomery, C. G.
WILEY-BLACKWELL.2015: 562
- **Fine mapping of chromosome 15q25 implicates ZNF592 in neurosarcoidosis patients** *ANNALS OF CLINICAL AND TRANSLATIONAL NEUROLOGY*
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