Stanford

Ravindra Majeti MD, PhD

RZ Cao Professor

Medicine - Hematology

Curriculum Vitae available Online

CLINICAL OFFICES

- **Stanford Cancer Center**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

  Peggy Cuadro - Administrative Associate

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Bio

BIO

Ravi Majeti MD, PhD is Professor of Medicine, Chief of the Division of Hematology, and Member of the Institute for Stem Cell Biology and Regenerative Medicine at the Stanford University School of Medicine. He was an undergraduate at Harvard, earned his MD and PhD from UCSF, and trained in Internal Medicine at Brigham and Women's Hospital in Boston. Dr. Majeti completed his Hematology Fellowship at Stanford, and is a board-certified hematologist. While at Stanford, he completed post-doctoral training in the laboratory of Irving Weissman, where he investigated acute myeloid leukemia (AML) stem cells and therapeutic targeting with anti-CD47 antibodies. With Dr. Weissman, he developed a humanized anti-CD47 antibody, initiated first-in-human clinical trials. Dr. Majeti directs an active NIH-funded laboratory that focuses on the molecular characterization and therapeutic targeting of leukemia stem cells in human hematologic disorders, particularly AML, and has published >90 peer-reviewed articles. He is a recipient of the Burroughs Wellcome Career Award for Medical Scientists, the New York Stem Cell Foundation Robertson Investigator Award, and the Leukemia and Lymphoma Society Scholar Award. Dr. Majeti is currently a member of the Committee on Scientific Affairs for the American Society of Hematology (ASH) and serves of the editorial board of Blood and eLife.

CLINICAL FOCUS

- Hematology

ACADEMIC APPOINTMENTS

- Professor, Medicine - Hematology
- Member, Bio-X
- Member, Institute for Stem Cell Biology and Regenerative Medicine
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Chief, Division of Hematology, (2017- present)
- Assistant Director, Stanford Ludwig Center for Cancer Stem Cell Research, (2014- present)

- Co-Director, Lymphoma and Leukemia Program - Stanford Cancer Institute, (2014- present)
- Co-Director, Translational Research Program - Internal Medicine Residency, (2013-2017)

HONORS AND AWARDS

- Scholar Award, Leukemia and Lymphoma Society (2015)
- Robertson Investigator Award, New York Stem Cell Foundation (2011)
- Career Award for Medical Scientists, Burroughs Wellcome Fund (2008)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Society of Hematology - Committee on Myeloid Neoplasia (2013 - present)

PROFESSIONAL EDUCATION

- Board Certification: Hematology, American Board of Internal Medicine (2007)
- Medical Education: University of California at San Francisco School of Medicine (2002) CA
- Residency: Brigham and Women's Hospital Harvard Medical School (2004) MA
- Fellowship: Stanford University Medical Center (2008) CA

LINKS

- Lab Website: http://majetilab.stanford.edu/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Acute myeloid leukemia (AML) is a cancer of the blood and bone marrow that is rapidly fatal within months if untreated. Even with aggressive treatment, including high dose chemotherapy and bone marrow transplantation, five-year overall survival rates range between 30-40%. A growing body of evidence indicates that not all cells in this cancer are the same, and that there is a rare population of leukemia stem cells (LSC) that are responsible for maintaining the disease. These findings have led to the idea that in order to cure this cancer, the LSC must be eliminated, while at the same time sparing the normal blood forming stem cells within the bone marrow.

The overall goal of our research is to identify molecular and genetic differences between human AML stem cells and their normal counterparts, and then to develop therapeutic strategies directed against these targets. We utilize bioinformatics, genomics, and functional methods to investigate genes and pathways preferentially expressed or activated in LSC. From this analysis, we have identified a number of factors, including several cell surface protein markers that are more highly expressed on AML LSC compared to their normal counterparts. We have focused on one of these markers, CD47, that contributes to leukemia development by blocking the ingestion and removal of leukemia cells by cells of the immune system. Most significantly, we determined that blocking monoclonal antibodies directed against CD47 targeted LSC and depleted leukemia in mouse pre-clinical models. We have now developed a clinical grade humanized anti-CD47 antibody that is in clinical trials at the Stanford Cancer Center.

Our research has also investigated the development of AML from normal blood forming, or hematopoietic, stem cells (HSC). Genomic studies have determined that most cases of AML are associated with an average of 5 mutations, raising the question of how these multiple mutations accumulate in a single lineage of cells. We hypothesized that since HSC are the only long-lived, self-propagating cells in the myeloid lineage, then the mutations must be serially acquired in clones of HSC. Using primary patient samples and single cell genomic methods, we found evidence of pre-leukemic HSC and mutations, confirming our hypothesis. Furthermore, we showed that these pre-leukemic HSC survive chemotherapy and may give rise to relapsed disease. Thus, these pre-leukemic mutations may be critical targets for curative therapies.

Teaching

COURSES

2020-21

- Clinical Cancer Research Internship Program: CBIO 246 (Win)

2019-20

- Clinical Cancer Research Internship Program: CBIO 246 (Win)

2018-19

- Clinical Cancer Research Internship Program: CBIO 246 (Win, Spr)

2017-18

- Clinical Cancer Research Internship Program: CBIO 246 (Win, Spr)

STANFORD ADVISEES

Med Scholar Project Advisor

Ritika Dutta, Xiaoyi Hu

Doctoral Dissertation Reader (AC)

Laura Amaya, YeEun Kim

Orals Chair

Gunsagar Gulati

Postdoctoral Faculty Sponsor

Sara Beygi, Cailin Collins, Hitomi Hosoya, Daiki Karigane, Thomas Koehnke, Niklas Landberg, Lingjun Meng, Ilana Yurkiewicz

Doctoral Dissertation Advisor (AC)

Brooks Benard, Asiri Ediriwickrema, Amy Fan, Miles Linde, Kevin Nuno

Postdoctoral Research Mentor

Cailin Collins, Asiri Ediriwickrema, Eric Gars, Hitomi Hosoya, Thomas Koehnke

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)
- Immunology (Phd Program)
- Stem Cell Biology and Regenerative Medicine (Phd Program)

Publications

PUBLICATIONS

- **IL-6 blockade reverses bone marrow failure induced by human acute myeloid leukemia.** *Science translational medicine*
  Zhang, T. Y., Dutta, R., Benard, B., Zhao, F., Yin, R., Majeti, R.
  2020; 12 (538)
- **Integrated analysis of patient samples identifies biomarkers for venetoclax efficacy and combination strategies in acute myeloid leukemia.** *Nature cancer*
  Zhang, H. n., Nakauchi, Y. n., Köhnke, T. n., Stafford, M. n., Bottomly, D. n., Thomas, R. n., Wilmot, B. n., McWeeney, S. K., Majeti, R. n., Tyner, J. W.
  2020; 1 (8): 826–39
- **Single-cell mutational profiling enhances the clinical evaluation of AML MRD.** *Blood advances*

Ediriwickrema, A. n., Aleshin, A. n., Reiter, J. G., Corces, M. R., Köhnke, T. n., Stafford, M. n., Liedtke, M. n., Medeiros, B. C., Majeti, R. n.
2020; 4 (5): 943–52

- **Enasidenib drives human erythroid differentiation independently of isocitrate dehydrogenase 2.** *The Journal of clinical investigation*
  Dutta, R. n., Zhang, T. Y., Köhnke, T. n., Thomas, D. n., Linde, M. n., Gars, E. n., Stafford, M. n., Kaur, S. n., Nakauchi, Y. n., Yin, R. n., Azizi, A. n., Narla, A. n., Majeti, et al
  2020

- **CD47 Blockade by Hu5F9-G4 and Rituximab in Non-Hodgkin's Lymphoma.** *The New England journal of medicine*
  Advani, R., Flinn, I., Popplewell, L., Forero, A., Bartlett, N. L., Ghosh, N., Kline, J., Roschewski, M., LaCasce, A., Collins, G. P., Tran, T., Lynn, J., Chen, et al
  2018; 379 (18): 1711–21

- **SY-1425 (tamibarotene), a potent and selective RAR alpha agonist, induces changes in the transcriptional regulatory circuit of AML cells leading to differentiation**
  Fiore, C. M., McKeown, M. R., Lee, E., Eaton, M. L., Smith, D., Austgen, K., Chen, M., Guenther, M., Corces, M., Majeti, R., Olson, E., Fritz, C. C.
  AMER ASSOC CANCER RESEARCH.2017: 29–30

- **Human AML-iPSCs Reacquire Leukemic Properties after Differentiation and Model Clonal Variation of Disease.** *Cell stem cell*
  Chao, M. P., Gentles, A. J., Chatterjee, S., Lan, F., Reinisch, A., Corces, M. R., Xavy, S., Shen, J., Haag, D., Chanda, S., Sinha, R., Morganti, R. M., Nishimura, et al
  2017; 20 (3): 329-344 e7

- **Biology and relevance of human acute myeloid leukemia stem cells.** *Blood*
  Thomas, D., Majeti, R.
  2017

- **Multiplexed genetic engineering of human hematopoietic stem and progenitor cells using CRISPR/Cas9 and AAV6.** *eLife*
  Bak, R. O., Dever, D. P., Reinisch, A. n., Cruz Hernandez, D. n., Majeti, R. n., Porteus, M. H.
  2017; 6

- **Super-Enhancer Analysis Defines Novel Epigenomic Subtypes of Non-APL AML Including an RAR# Dependency Targetable by SY-1425, a Potent and Selective RAR# Agonist.** *Cancer discovery*
  McKeown, M. R., Corces, M. R., Eaton, M. L., Fiore, C. n., Lee, E. n., Lopez, J. T., Chen, M. W., Smith, D. n., Chan, S. M., Koenig, J. L., Austgen, K. n., Guenther, M. G., Orlando, et al
  2017

- **A humanized bone marrow ossicle xenotransplantation model enables improved engraftment of healthy and leukemic human hematopoietic cells** *NATURE MEDICINE*
  Reinisch, A., Thomas, D., Corces, M. R., Zhang, X., Gratzinger, D., Hong, W., Schallmoser, K., Strunk, D., Majeti, R.
  2016; 22 (7): 812-821

- **Leukemia-Associated Cohesin Mutants Dominantly Enforce Stem Cell Programs and Impair Human Hematopoietic Progenitor Differentiation.** *Cell stem cell*
  Mazumdar, C., Shen, Y., Xavy, S., Zhao, F., Reinisch, A., Li, R., Corces, M. R., Flynn, R. A., Buenrostro, J. D., Chan, S. M., Thomas, D., Koenig, J. L., Hong, et al
  2015; 17 (6): 675-688

- **Reprogramming of primary human Philadelphia chromosome-positive B cell acute lymphoblastic leukemia cells into nonleukemic macrophages** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  McClellan, J. S., Dove, C., Gentles, A. J., Ryan, C. E., Majeti, R.
  2015; 112 (13): 4074-4079

- **Isocitrate dehydrogenase 1 and 2 mutations induce BCL-2 dependence in acute myeloid leukemia.** *Nature medicine*
  Chan, S. M., Thomas, D., Corces-Zimmerman, M. R., Xavy, S., Rastogi, S., Hong, W., Zhao, F., Medeiros, B. C., Tyvoll, D. A., Majeti, R.
  2015; 21 (2): 178-184

- **Mutant WT1 is associated with DNA hypermethylation of PRC2 targets in AML and responds to EZH2 inhibition.** *Blood*
  Sinha, S., Thomas, D., Yu, L., Gentles, A. J., Jung, N., Corces-Zimmerman, M. R., Chan, S. M., Reinisch, A., Feinberg, A. P., Dill, D. L., Majeti, R.
  2015; 125 (2): 316-326

- **Preleukemic mutations in human acute myeloid leukemia affect epigenetic regulators and persist in remission.** *Proceedings of the National Academy of Sciences of the United States of America*

Corces-Zimmerman, M. R., Hong, W., Weissman, I. L., Medeiros, B. C., Majeti, R.
2014; 111 (7): 2548-2553

- **Clonal Evolution of Preleukemic Hematopoietic Stem Cells Precedes Human Acute Myeloid Leukemia** *SCIENCE TRANSLATIONAL MEDICINE*
  Jan, M., Snyder, T. M., Corces-Zimmerman, M. R., Vyas, P., Weissman, I. L., Quake, S. R., Majeti, R.
  2012; 4 (149)

- **Association of a Leukemic Stem Cell Gene Expression Signature With Clinical Outcomes in Acute Myeloid Leukemia** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
  Gentles, A. J., Plevritis, S. K., Majeti, R., Alizadeh, A. A.
  2010; 304 (24): 2706-2715

- **Anti-CD47 Antibody Synergizes with Rituximab to Promote Phagocytosis and Eradicate Non-Hodgkin Lymphoma** *CELL*
  Chao, M. P., Alizadeh, A. A., Tang, C., Myklebust, J. H., Varghese, B., Gill, S., Jan, M., Cha, A. C., Chan, C. K., Tan, B. T., Park, C. Y., Zhao, F., Kohrt, et al
  2010; 142 (5): 699-713

- **CD47 Is an Adverse Prognostic Factor and Therapeutic Antibody Target on Human Acute Myeloid Leukemia Stem Cells** *CELL*
  Majeti, R., Chao, M. P., Alizadeh, A. A., Pang, W. W., Jaiswal, S., Gibbs, K. D., van Rooijen, N., Weissman, I. L.
  2009; 138 (2): 286-299

- **Identification of a hierarchy of multipotent hematopoietic progenitors in human cord blood** *CELL STEM CELL*
  Majeti, R., Park, C. Y., Weissman, I. L.
  2007; 1 (6): 635-645

- **Gene replacement of alpha-globin with beta-globin restores hemoglobin balance in beta-thalassemia-derived hematopoietic stem and progenitor cells.** *Nature medicine*
  Cromer, M. K., Camarena, J., Martin, R. M., Lesch, B. J., Vakulskas, C. A., Bode, N. M., Kurgan, G., Collingwood, M. A., Rettig, G. R., Behlke, M. A., Lemgart, V. T., Zhang, Y., Goyal, et al
  2021

- **The TRACE-Seq method tracks recombination alleles and identifies clonal reconstitution dynamics of gene targeted human hematopoietic stem cells.** *Nature communications*
  Sharma, R. n., Dever, D. P., Lee, C. M., Azizi, A. n., Pan, Y. n., Camarena, J. n., Köhnke, T. n., Bao, G. n., Porteus, M. H., Majeti, R. n.
  2021; 12 (1): 472

- **CD34 expression does not correlate with immunophenotypic stem cell or progenitor content in human cord blood products.** *Blood advances*
  Mantri, S., Reinisch, A., Dejene, B. T., Lyell, D. J., DiGiusto, D. L., Agarwal-Hashmi, R., Majeti, R., Weinberg, K. I., Porteus, M. H.
  2020; 4 (21): 5357–61

- **Targeting LSCs: Peeling Back the Curtain on the Metabolic Complexities of AML.** *Cell stem cell*
  Zhang, T. Y., Majeti, R.
  2020; 27 (5): 693–95

- **Sufficiency for inducible Caspase-9 safety switch in human pluripotent stem cells and disease cells.** *Gene therapy*
  Nishimura, T., Xu, H., Iwasaki, M., Karigane, D., Saavedra, B., Takahashi, Y., Suchy, F. P., Monobe, S., Martin, R. M., Ohtaka, M., Nakanishi, M., Burrows, S. R., Cleary, et al
  2020

- **Reprogramming leukemia cells into antigen presenting cells as a novel cancer vaccination immunotherapy**
  Linde, M. H., Dove, C. G., Gurev, S. F., Phan, P., Zhao, F., Gars, E. J., Marshall, P. L., Miller, L. P., Majeti, R.
  AMER ASSOC IMMUNOLOGISTS.2020

- **A Dysregulated DNA Methylation Landscape Linked to Gene Expression in MLL-Rearranged AML.** *Epigenetics*
  Koldobskiy, M. A., Abante, J., Jenkinson, G., Pujadas, E., Tetens, A., Zhao, F., Tryggvadottir, R., Idrizi, A., Reinisch, A., Majeti, R., Goutsias, J., Feinberg, A. P.
  2020: 1–18

- **Multiomic single cell analysis of normal human bone marrow identifies a unique stem and progenitor population that expands in AML** *Proceedings of the Annual Meeting of the American Association for Cancer Research 2020*
  Ediriwickrema, A., Ramakrishnan, S., Nakamoto, M., Ghanekar, S., Luca, B., Newman, A., Gentles, A., Majeti, R.
  2020

- **Venetoclax and hypomethylating agent therapy in high risk myelodysplastic syndromes: a retrospective evaluation of a real-world experience.** *Leukemia & lymphoma*
  Azizi, A. n., Ediriwickrema, A. n., Dutta, R. n., Patel, S. A., Shomali, W. n., Medeiros, B. n., Iberri, D. n., Gotlib, J. n., Mannis, G. n., Greenberg, P. n., Majeti, R. n., Zhang, T. n.
  2020: 1–8

- **Targeting macrophage checkpoint inhibitor SIRPa for anticancer therapy.** *JCI insight*
  Liu, J. n., Xavy, S. n., Mihardja, S. n., Chen, S. n., Sompalli, K. n., Feng, D. n., Choi, T. S., Agoram, B. n., Majeti, R. n., Weissman, I. L., Volkmer, J. P.
  2020

- **Single-cell multiomic analysis identifies regulatory programs in mixed-phenotype acute leukemia.** *Nature biotechnology*
  Granja, J. M., Klemm, S., McGinnis, L. M., Kathiria, A. S., Mezger, A., Corces, M. R., Parks, B., Gars, E., Liedtke, M., Zheng, G. X., Chang, H. Y., Majeti, R., Greenleaf, et al
  2019

- **Single-cell mutational profiling of paired AML samples at diagnosis, remission and relapse: Implications for therapeutic resistance and MRD detection**
  Aleshin, A., Durruthy-Durruthy, R., Corces, R., Liedtke, M., Eastburn, D., Majeti, R.
  AMER ASSOC CANCER RESEARCH.2019

- **Barcoded Clonal Tracking of CRISPR-Cas9 and rAAV6-Mediated Gene Targeting in Human Hematopoietic Stem and Progenitor Cells**
  Dever, D. P., Sharma, R., Lee, C. M., Aziz, A., Koehnke, T., Camarena, J., Pan, Y., Zhao, F., Bao, G., Majeti, R., Porteus, M.
  CELL PRESS.2019: 5

- **First-in-Human, First-in-Class Phase I Trial of the Anti-CD47 Antibody Hu5F9-G4 in Patients With Advanced Cancers** *JOURNAL OF CLINICAL ONCOLOGY*
  Sikic, B., Lakhani, N., Patnaik, A., Shah, S. A., Chandana, S. R., Rasco, D., Colevas, A., O'Rourke, T., Narayanan, S., Papadopoulos, K., Fisher, G. A., Villalobos, V., Prohaska, et al
  2019; 37 (12): 946-+

- **CAR T Cells Targeting B7-H3, a Pan-Cancer Antigen, Demonstrate Potent Preclinical Activity Against Pediatric Solid Tumors and Brain Tumors** *CLINICAL CANCER RESEARCH*
  Majzner, R. G., Theruvath, J. L., Nellan, A., Heitzeneder, S., Cui, Y., Mount, C. W., Rietberg, S. P., Linde, M. H., Xu, P., Rota, C., Sotillo, E., Labanieh, L., Lee, et al
  2019; 25 (8): 2560–74

- **Single-cell lineage tracing by endogenous mutations enriched in transposase accessible mitochondrial DNA** *ELIFE*
  Xu, J., Nuno, K., Litzenburger, U. M., Qi, Y., Corces, M., Majeti, R., Chang, H. Y.
  2019; 8

- **Single-cell lineage tracing by endogenous mutations enriched in transposase accessible mitochondrial DNA.** *eLife*
  Xu, J., Nuno, K., Litzenburger, U. M., Qi, Y., Corces, M. R., Majeti, R., Chang, H. Y.
  2019; 8

- **Data mining for mutation-specific targets in acute myeloid leukemia** *LEUKEMIA*
  Benard, B., Gentles, A. J., Kohnke, T., Majeti, R., Thomas, D.
  2019; 33 (4): 826–43

- **No Matter How You Splice It, RBM39 Inhibition Targets Spliceosome Mutant AML.** *Cancer cell*
  Thomas, R., Majeti, R.
  2019; 35 (3): 337–39

- **First-in-Human, First-in-Class Phase I Trial of the Anti-CD47 Antibody Hu5F9-G4 in Patients With Advanced Cancers.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
  Sikic, B. I., Lakhani, N., Patnaik, A., Shah, S. A., Chandana, S. R., Rasco, D., Colevas, A. D., O'Rourke, T., Narayanan, S., Papadopoulos, K., Fisher, G. A., Villalobos, V., Prohaska, et al
  2019: JCO1802018

- **Data mining for mutation-specific targets in acute myeloid leukemia.** *Leukemia*
  Benard, B., Gentles, A. J., Kohnke, T., Majeti, R., Thomas, D.
  2019

- **CAR T cells targeting B7-H3, a Pan-Cancer Antigen, Demonstrate Potent Preclinical Activity Against Pediatric Solid Tumors and Brain Tumors.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
  Majzner, R. G., Theruvath, J. L., Nellan, A., Heitzeneder, S., Cui, Y., Mount, C. W., Rietberg, S. P., Linde, M. H., Xu, P., Rota, C., Sotillo, E., Labanieh, L., Lee, et al
  2019
- **Induced pluripotent stem cell modeling of malignant hematopoiesis.** *Experimental hematology*
  Chao, M. P., Majeti, R.
  2019
- **The Phosphatidylethanolamine Biosynthesis Pathway Provides a New Target for Cancer Chemotherapy.** *Journal of hepatology*
  Guan, Y. n., Chen, X. n., Wu, M. n., Zhu, W. n., Arslan, A. n., Takeda, S. n., Nguyen, M. H., Majeti, R. n., Thomas, D. n., Zheng, M. n., Peltz, G. n.
  2019
- **Therapeutic Targeting of the Macrophage Immune Checkpoint CD47 in Myeloid Malignancies.** *Frontiers in oncology*
  Chao, M. P., Takimoto, C. H., Feng, D. D., McKenna, K., Gip, P., Liu, J., Volkmer, J., Weissman, I. L., Majeti, R.
  2019; 9: 1380
- **Mebendazole for Differentiation Therapy of Acute Myeloid Leukemia Identified by a Lineage Maturation Index.** *Scientific reports*
  Li, Y. n., Thomas, D. n., Deutzmann, A. n., Majeti, R. n., Felsher, D. W., Dill, D. L.
  2019; 9 (1): 16775
- **Targeting Cancer Stemness in the Clinic: From Hype to Hope.** *Cell stem cell*
  Saygin, C., Matei, D., Majeti, R., Reizes, O., Lathia, J. D.
  2018
- **Accumulation of JAK Activation-Loop Phosphorylation Promotes Type I JAK Inhibitor Withdrawal Syndrome in Myelofibrosis**
  Tvorogov, D., Thomas, D., Liau, N. D., Dottore, M., Barry, E. F., Lathi, M., Kan, W. L., Hercus, T. R., Stomski, F., Hughes, T. P., Tergaonkar, V., Parker, M. W., Ross, et al
  AMER SOC HEMATOLOGY.2018
- **Macrophage de novo NAD+ synthesis specifies immune function in aging and inflammation.** *Nature immunology*
  Minhas, P. S., Liu, L., Moon, P. K., Joshi, A. U., Dove, C., Mhatre, S., Contrepois, K., Wang, Q., Lee, B. A., Coronado, M., Bernstein, D., Snyder, M. P., Migaud, et al
  2018
- **Accumulation of JAK activation loop phosphorylation is linked to type I JAK inhibitor withdrawal syndrome in myelofibrosis.** *Science advances*
  Tvorogov, D., Thomas, D., Liau, N. P., Dottore, M., Barry, E. F., Lathi, M., Kan, W. L., Hercus, T. R., Stomski, F., Hughes, T. P., Tergaonkar, V., Parker, M. W., Ross, et al
  2018; 4 (11): eaat3834
- **Identification of the Human Skeletal Stem Cell.** *Cell*
  Chan, C. K., Gulati, G. S., Sinha, R., Tompkins, J. V., Lopez, M., Carter, A. C., Ransom, R. C., Reinisch, A., Wearda, T., Murphy, M., Brewer, R. E., Koepke, L. S., Marecic, et al
  2018; 175 (1): 43
- **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-+
- **Single-cell analysis reveals the continuum of human lympho-myeloid progenitor cells** *NATURE IMMUNOLOGY*
  Karamitros, D., Stoilova, B., Aboukhalil, Z., Hamey, F., Reinisch, A., Samitsch, M., Quek, L., Otto, G., Repapi, E., Doondeea, J., Usukhbayar, B., Calvo, J., Taylor, et al
  2018; 19 (1): 85-+
- **Engineering complex genotypes in primary haematopoietic cells using Cas9/sgRNA and AAV donor vectors**
  Bak, R. O., Dever, D. P., Reinisch, A., Cruz, D., Majeti, R., Porteus, M. H.
  MARY ANN LIEBERT, INC.2017: A17
- **Proposed Terminology and Classification of Pre-Malignant Neoplastic Conditions: A Consensus Proposal** *EBIOMEDICINE*
  Valent, P., Akin, C., Arock, M., Bock, C., George, T. I., Galli, S. J., Gotlib, J., Haferlach, T., Hoermann, G., Hermine, O., Jaeger, U., Kenner, L., Kreipe, et al

2017; 26: 17–24

- **Preleukemic Hematopoietic Stem Cells in Human Acute Myeloid Leukemia** *FRONTIERS IN ONCOLOGY*
  Corces, M., Chang, H. Y., Majeti, R.
  2017; 7: 263
- **Systematic discovery of mutation-specific synthetic lethals by mining pan-cancer human primary tumor data.** *Nature communications*
  Sinha, S., Thomas, D., Chan, S., Gao, Y., Brunen, D., Torabi, D., Reinisch, A., Hernandez, D., Chan, A., Rankin, E. B., Bernards, R., Majeti, R., Dill, et al
  2017; 8: 15580-?
- **Optimizing Next-Generation AML Therapy: Activity of Mutant IDH2 Inhibitor AG-221 in Preclinical Models** *CANCER DISCOVERY*
  Thomas, D., Majeti, R.
  2017; 7 (5): 459–61
- **Disrupting the CD47-SIRP alpha anti-phagocytic axis by a humanized anti-CD47 antibody is an efficacious treatment for malignant pediatric brain tumors** *SCIENCE TRANSLATIONAL MEDICINE*
  Gholamin, S., Mitra, S. S., Feroze, A. H., Liu, J., Kahn, S. A., Zhang, M., Esparza, R., Richard, C., Ramaswamy, V., Remke, M., Volkmer, A. K., Willingham, S., Ponnuswami, et al
  2017; 9 (381)
- **The role of mutations in the cohesin complex in acute myeloid leukemia** *INTERNATIONAL JOURNAL OF HEMATOLOGY*
  Mazumdar, C., Majeti, R.
  2017; 105 (1): 31-36
- **Proposed Terminology and Classification of Pre-Malignant Neoplastic Conditions: A Consensus Proposal.** *EBioMedicine*
  Valent, P. n., Akin, C. n., Arock, M. n., Bock, C. n., George, T. I., Galli, S. J., Gotlib, J. n., Haferlach, T. n., Hoermann, G. n., Hermine, O. n., Jäger, U. n., Kenner, L. n., Kreipe, et al
  2017; 26: 17–24
- **Optimizing Next-Generation AML Therapy: Activity of Mutant IDH2 Inhibitor AG-221 in Preclinical Models.** *Cancer discovery*
  Thomas, D. n., Majeti, R. n.
  2017; 7 (5): 459–61
- **Generation and use of a humanized bone-marrow-ossicle niche for hematopoietic xenotransplantation into mice.** *Nature protocols*
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