Stanford



Ash A. Alizadeh, MD/PhD

Moghadam Family Professor

Medicine - Oncology

CLINICAL OFFICE (PRIMARY)

- **Stanford Comprehensive Cancer Center**
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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**
  Jackie (Jacqueline) Vicencio - Administrative Assistant
  Email jvicenci@stanford.edu
  Tel (650) 223-5641

Bio

BIO

Ash A Alizadeh is the Moghadam Family Professor of Medicine, Oncology, and Hematology (by courtesy) at Stanford University, and leader of the Cancer Genomics Program at Stanford Cancer Institute. His primary research interests are in the development and application of genome technologies and computing (machine learning & data science) to a range of problems in human disease, with special focus on cancer detection, classification, monitoring, and tumor immunology. As a longstanding member of NIH Cancer Genetics (CG) Study Section, he helps the Center for Scientific Review with genome scale studies focused on cancer pathogenesis.

Dr. Alizadeh leads a group interested in techniques and methods for understanding tumor behavior at molecular, cellular, organism and population levels. In this effort, his group studies cancer genomic profiles obtained either from tumor tissues, or from noninvasive “liquid biopsies”. Using machine learning techniques, his lab studies how cellular compositional variation impacts cancer behavior and therapeutic response (e.g., http://cibersortx.stanford.edu, http://precog.stanford.edu, and http://ecotyper.stanford.edu), including anti-tumor immunity (http://maria.stanford.edu).

Dr. Alizadeh's group has helped pioneer a range of noninvasive cancer genomic techniques that enable “liquid biopsies”, including CAPP-Seq (https://cappseq.stanford.edu), PhasED-Seq (https://phasedseq.stanford.edu), and EPIC-Seq (https://epicseq.stanford.edu). Using such techniques work from his group focuses on the analysis of circulating nucleic acids to address problems for early cancer detection (http://clip.stanford.edu) and noninvasive cancer monitoring, including prediction of therapeutic response (http://ciri.stanford.edu & http://direct.stanford.edu).

Dr. Alizadeh holds a BS in Biochemistry from UCLA, an MD from Stanford Medical School, a PhD in Biophysics from Stanford, with additional training at the National Cancer Institute (NCI), the National Institutes of Health (NIH), and the Howard Hughes Medical Institute (HHMI). He has received a number of key awards for his work, including the Scholar Award from the American Society of Hematology (ASH), the Leukemia & Lymphoma Society (LLS), the V-Foundation, as well as awards from the American Red Cross, Damon Runyon Cancer Research Foundation, Doris Duke Charitable Research Foundation, among others. He is an elected member of the American Society for Clinical Investigation (ASCI), and an elected member of the Scientific Advisory Board (SAB) of the Lymphoma Research Foundation (LRF).

Dr. Alizadeh is a past-President of the American Society of Hematology (ASH) Meeting on Lymphoma Biology, a founding member of the International Lymphoma ctDNA Consortium & Working Group, and past-Chair of the Scientific Committee on Genetics & Epigenetics for the American Society of Hematology (ASH), and past-Chair the Scientific Committee on Lymphoma & Myeloma for the American Society of Clinical Oncology (ASCO). Dr. Alizadeh is a co-founder of CAPP Medical, CiberMED, and Foresight Diagnostics. Dr. Alizadeh is board certified in Medical Oncology, Hematology, and Internal Medicine, a member of the Stanford Lymphoma Program, and received the Stanford Department of Medicine Research Award in 2005. He is a member of the Scientific Advisory Board for Cell, and Scientific Editor for Blood, Cancer Discovery, Blood Cancer Discovery, and the Journal of Clinical Oncology (JCO) and Precision Oncology (PO).

CLINICAL FOCUS

- Cancer > Lymphoma
- Lymphoma
- B-Cell Chronic Lymphocytic Leukemia
- Waldenstrom Macroglobulinemia
- Burkitt Lymphoma
- Follicular Lymphoma
- Diffuse Large-Cell Lymphomas
- Leukemia, Hairy Cell
- Lymphoma, B-Cell, Marginal Zone
- Hodgkin Disease
- Medical Oncology

ACADEMIC APPOINTMENTS

- Professor, Medicine - Oncology
- 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

- Chair, Seminar Committee, Stanford Immunology Program, (2011- present)
- Admissions Panel, Medical Scientist Training Program, Stanford University, (2011- present)
- Admissions Panel, Stanford Medical School, (2012- present)
- Steering Committee Member & Mentor, Stanford Computational & Systems Immunology, (2012- present)

HONORS AND AWARDS

- Magna cum laude, College & Departmental Honors, UCLA (6/1993)
- NIH Research Fellow Award, NIH/NCI (6/1995)
- Research Scholar Award, HHMI-NIH (1996 1998)
- Intramural Research Award, NIH/NCI (1997 1998)
- Research Scholar Award for Outstanding Research, HHMI (1998)
- Medical Scientist Training Program Award, NIH (1996-2003)

- Sandler Fellow Award, UCSF (2003-2004)
- Franklin G. Ebaugh, Jr. Award for Outstanding Research, Dept of Medicine, Stanford (2004-2005)
- Leukemia & Lymphoma Society Special Fellow in Clinical Research, Stanford University (2010-2013)
- American Society for Clinical Oncology Career Development Award, Stanford University (2010-2013)
- Clinical Investigator Program: Fellow Award, Stanford University Medical Center (2004-2010)
- Josephine Q. Berry Faculty Scholar in Cancer Research, Stanford University (2010)
- Bent & Janet Cardan Oncology Research Fellow, Stanford University (2010)
- Garbrielle's Angel Foundation, Stanford University (2012-2015)
- Doris Duke Clinical Scientist Development Award, Stanford University (2011)
- Cancer Innovation Award, Stanford Hospital & Clinics (2012-2013)
- Damon Runyon Cancer Research Foundation Clinical Investigator Award, Stanford University (2014-2017)
- V-Foundation Scholar/Martin D Abeloff Award (1st Place), Stanford University (2014-2016)
- Celgene Young Investigator Award, Stanford University (2014-2015)
- American Society of Hematology Scholar Award, Stanford University (2015-2017)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Vice Chair, Committee on Epigenetics and Genomics, American Society of Hematology (2014 - present)
- Mentor, Lymphoma Clinical Research Mentoring Program, Lymphoma Research Foundation (2013 - present)
- Leader, Scientific Program Committee on Lymphoma, Myeloma, Plasma Cell Disorders, American Society of Clinical Oncology (2011 - 2014)

PROFESSIONAL EDUCATION

- Board Certification: Medical Oncology, American Board of Internal Medicine (2021)
- Medical Education: Stanford University School of Medicine (2003) CA
- Fellowship: Stanford University Hematology and Oncology Fellowship (2009) CA
- Residency: Stanford University Internal Medicine Residency (2006) CA
- MD, Stanford university School of Medicine , Medicine (2003)
- PhD, Stanford university School of Medicine , Biophysics/Dept of Biochemistry (2003)
- B.S., UCLA , Biochemistry (1994)

LINKS

- Alizadeh Lab: http://med.stanford.edu/labs/ash_alizadeh/
- Scholar Profile: http://scholar.google.com/citations?user=KRkHmBIAAAAJ&hl=en
- NIH Bibliography: http://www.ncbi.nlm.nih.gov/sites/myncbi/arash ash.alizadeh.1/bibliography/40471369/public/?sort=date&direction=descending
- Get a Second Opinion: https://stanfordhealthcare.org/second-opinion/overview.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My group's research is focused on attaining a better understanding of the initiation, maintenance, and progression of tumors, and their response to current therapies toward improving future treatment strategies.

My group develops and applies genomic biomarkers of tumor cells, whether detected through biopsy of the primary neoplasm, or noninvasively through monitoring of the bodily fluids including blood. We apply such genomic biomarkers for the early detection, diagnosis, and monitoring of diverse tumors including lymphomas and solid tumors.

We are also interested in better molecular understanding of normal tissue stem cells and their malignant tumor-initiating counterparts (cancer stem cells), toward identification of the underlying mechanisms relevant to specific cancers of the hematopoietic system. These tumors include follicular lymphoma, diffuse large B-cell lymphoma, and mantle cell lymphoma.

We have also worked to build prognostic and predictive models for clinical and therapeutic outcomes of diverse human malignancies, through large-scale bioinformatic meta-analysis of human tumor transcriptomes, including deconvolution of complex tumor admixtures including infiltrating leukocytes.

In this effort, we help build and employ tools from functional genomics, computational biology, molecular genetics, and mouse models. We are applying this knowledge toward the design of clinical trials in the treatment of patients with various malignancies, whom I care for directly or indirectly, as a clinician specializing in Medical Oncology and Hematology.

CLINICAL TRIALS

- Clinical and Pathologic Studies in Non-Hodgkin's Lymphoma and Hodgkin's Disease, Recruiting
- Defining ctDNA Metrics in Posttransplant Lymphoproliferative Disorder (PTLD), Recruiting
- A Multi-Center Study of Ibrutinib in Combination With MEDI4736 in Subjects With Relapsed or Refractory Lymphomas, Not Recruiting
- A Study of Atezolizumab (an Engineered Anti-Programmed Death-Ligand 1 [PDL1] Antibody) to Evaluate Safety, Tolerability and Pharmacokinetics in Participants With Locally Advanced or Metastatic Solid Tumors, Not Recruiting
- A Study of PCI-32765 (Ibrutinib) in Patients With Refractory Follicular Lymphoma, Not Recruiting
- An Extension Study for Subjects Who Are Deriving Benefit With Idelalisib (GS-1101; CAL-101) Following Completion of a Prior Idelalisib Study, Not Recruiting
- Efficacy and Safety of Idelalisib (GS-1101) in Combination With Bendamustine and Rituximab for Previously Treated Indolent Non-Hodgkin Lymphomas, Not Recruiting
- Efficacy and Safety of Idelalisib (GS-1101) in Combination With Rituximab for Previously Treated Indolent Non-Hodgkin Lymphomas, Not Recruiting
- Genes in Predicting Outcome of Patients With DLBCL Treated With Rituximab and Combination Chemotherapy (R-CHOP), Not Recruiting
- Phase 1-2 of a CpG-Activated Whole Cell Vaccine Followed by Autologous Immunotransplant for MCL, Not Recruiting

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Karan Kathuria

Doctoral Dissertation Reader (AC)

Santiago Sanchez, Emily Shen, William Shi

Postdoctoral Faculty Sponsor

Gali Bai, Julia Kuehn, Lena Osswald, Steven Wang

Doctoral Dissertation Advisor (AC)

Peter Lu, Nick Phillips

Doctoral Dissertation Co-Advisor (AC)

Shuyu Shi

Postdoctoral Research Mentor

Amirsaman Ashtari

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biochemistry (PhD Program)
- Biophysics (PhD Program)
- Cancer Biology (PhD Program)
- Immunology (PhD Program)
- Medicine (Masters Program)

Publications

PUBLICATIONS

- **Hematotoxicity: the hidden legacy of CAR T cell therapy** *NATURE GENETICS*
  Hamilton, M. P., Boegeholz, J., Alizadeh, A. A.
  2026: 2738-2739

- **Clonal hematopoiesis and cytopenias following CAR19 therapy.** *Nature genetics*
  Hamilton, M. P., Phillips, N., Noordenbos, T., Boegeholz, J., Sugio, T., Sworder, B. J., Alig, S. K., Good, Z., Schroers-Martin, J. G., Tamaresis, J., Esfahani, M. S., Lu, Y., Olsen, et al
  2026

- **Urine cell-free RNA for bladder cancer detection and treatment response prediction.** *Nature medicine*
  Liu, K. J., Shi, W. Y., Nesselbush, M. C., Phillips, N. A., Mach, K. E., Luca, B., Bajpai, R. K., Jabara, I., Cheng, J. C., Sugio, T., Shukla, N., Shen, E. C., Koh, et al
  2026

- **Refined Continuous Risk Index for Accurately Predicting Outcomes of Patients With Chronic Lymphocytic Leukemia After Limited-Duration Therapy.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
  Al-Sawaf, O., Zhang, C., Esfahani, M. S., Liu, C. L., Robrecht, S., Tausch, E., Schilhabel, A., Ritgen, M., Schneider, C., Peifer, M., Fürstenau, M., Niemann, C. U., Kater, et al
  2026: JCO2600161

- **Field-effect-informed urine liquid biopsy for bladder cancer.** *Cell*
  Shi, W. Y., Liu, K. J., Esfahani, M. S., Mach, K. E., Phillips, N. A., Almanza, D., Bajpai, R. K., Schroers-Martin, J. G., Trabanino, L., Lee, T. J., La, V., Rodriguez, G., Holton, et al
  2026

- **Optimizing First-Line Therapy for Diffuse Large B-Cell Lymphoma** *JOURNAL OF THE NATIONAL COMPREHENSIVE CANCER NETWORK*
  Alizadeh, A. A.
  2025; 23: 21-23

- **Remission Assessment by Circulating Tumor DNA in Large B-cell Lymphoma.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
  Roschewski, M., Kurtz, D. M., Westin, J. R., Lynch, R. C., Gopal, A. K., Alig, S. K., Sworder, B. J., Cherng, H. J., Kuffer, C., Blair, D., Brown, K., Goldstein, J. S., Schultz, et al
  2025: 101200JCO2501534

- **An ultrasensitive method for detection of cell-free RNA.** *Nature*
  Nesselbush, M. C., Luca, B. A., Jeon, Y. J., Jabara, I., Meador, C. B., Garofalo, A., Binkley, M. S., Hui, A. B., van 't Erve, I., Xu, N., Shi, W. Y., Liu, K. J., Sugio, et al
  2025

- **Risk of Second Tumors and T-Cell Lymphoma after CAR T-Cell Therapy. Reply.** *The New England journal of medicine*
  Hamilton, M. P., Miklos, D. B., Alizadeh, A. A.

2024; 391 (9): 870-871

- **Risk of Second Tumors and T-Cell Lymphoma after CAR T-Cell Therapy.** *The New England journal of medicine*
  Hamilton, M. P., Sugio, T., Noordenbos, T., Shi, S., Bulterys, P. L., Liu, C. L., Kang, X., Olsen, M. N., Good, Z., Dahiya, S., Frank, M. J., Sahaf, B., Mackall, et al
  2024; 390 (22): 2047-2060

- **Cell-free RNA analysis for non-invasive cancer detection and characterization**
  Nesselbush, M. C., Luca, B. A., Jeon, Y., Jabara, I., Meador, C. B., Binkley, M. S., Xu, N., Hui, A. B., Garofalo, A., Shi, W. Y., Liu, K. J., Sugio, T., Kastelowitz, et al
  AMER ASSOC CANCER RESEARCH.2024

- **Distinct Hodgkin lymphoma subtypes defined by noninvasive genomic profiling.** *Nature*
  Alig, S. K., Esfahani, M. S., Garofalo, A., Li, M. Y., Rossi, C., Flerlage, T., Flerlage, J. E., Adams, R., Binkley, M. S., Shukla, N., Jin, M. C., Olsen, M., Telenius, et al
  2023

- **Cell-of-Origin Subtypes and Therapeutic Benefit from Polatuzumab Vedotin.** *The New England journal of medicine*
  Palmer, A. C., Kurtz, D. M., Alizadeh, A. A.
  2023; 389 (8): 764-766

- **Tracing founder mutations in circulating and tissue-resident follicular lymphoma precursors.** *Cancer discovery*
  Schroers-Martin, J. G., Soo, J., Brisou, G., Scherer, F., Kurtz, D. M., Sworder, B. J., Khodadoust, M. S., Jin, M. C., Bru, A., Liu, C. L., Stehr, H., Vineis, P., Natkunam, et al
  2023

- **From patterns to patients: Advances in clinical machine learning for cancer diagnosis, prognosis, and treatment.** *Cell*
  Swanson, K., Wu, E., Zhang, A., Alizadeh, A. A., Zou, J.
  2023

- **Determinants of resistance to engineered T cell therapies targeting CD19 in large B cell lymphomas.** *Cancer cell*
  Sworder, B. J., Kurtz, D. M., Alig, S. K., Frank, M. J., Shukla, N., Garofalo, A., Macaulay, C. W., Shahrokh Esfahani, M., Olsen, M. N., Hamilton, J., Hosoya, H., Hamilton, M., Spiegel, et al
  2022

- **Molecular Monitoring of Lymphomas.** *Annual review of pathology*
  Schroers-Martin, J. G., Alig, S., Garofalo, A., Tessoulin, B., Sugio, T., Alizadeh, A. A.
  2022

- **Genomic Profiling for Clinical Decision Making in Lymphoid Neoplasms.** *Blood*
  de Leval, L., Alizadeh, A. A., Bergsagel, P. L., Campo, E., Davies, A. J., Dogan, A., Fitzgibbon, J., Horwitz, S. M., Melnick, A. M., Morice, W. G., Morin, R. D., Nadel, B., Pileri, et al
  2022

- **Inferring gene expression from cell-free DNA fragmentation profiles.** *Nature biotechnology*
  Esfahani, M. S., Hamilton, E. G., Mehrmohamadi, M., Nabet, B. Y., Alig, S. K., King, D. A., Steen, C. B., Macaulay, C. W., Schultz, A., Nesselbush, M. C., Soo, J., Schroers-Martin, J. G., Chen, et al
  2022

- **Enhanced detection of minimal residual disease by targeted sequencing of phased variants in circulating tumor DNA.** *Nature biotechnology*
  Kurtz, D. M., Soo, J., Co Ting Keh, L., Alig, S., Chabon, J. J., Sworder, B. J., Schultz, A., Jin, M. C., Scherer, F., Garofalo, A., Macaulay, C. W., Hamilton, E. G., Chen, et al
  2021

- **Short Diagnosis-to-Treatment Interval Is Associated With Higher Circulating Tumor DNA Levels in Diffuse Large B-Cell Lymphoma.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
  Alig, S. n., Macaulay, C. W., Kurtz, D. M., Dührsen, U. n., Hüttmann, A. n., Schmitz, C. n., Jin, M. C., Sworder, B. J., Garofalo, A. n., Shahrokh Esfahani, M. n., Nabet, B. Y., Soo, J. n., Scherer, et al
  2021: JCO2002573

- **The landscape of tumor cell states and ecosystems in diffuse large B cell lymphoma.** *Cancer cell*

Steen, C. B., Luca, B. A., Esfahani, M. S., Azizi, A., Sworder, B. J., Nabet, B. Y., Kurtz, D. M., Liu, C. L., Khameneh, F., Advani, R. H., Natkunam, Y., Myklebust, J. H., Diehn, et al

2021

- **Atlas of clinically distinct cell states and ecosystems across human solid tumors.** *Cell*

  Luca, B. A., Steen, C. B., Matusiak, M., Azizi, A., Varma, S., Zhu, C., Przybyl, J., Espín-Pérez, A., Diehn, M., Alizadeh, A. A., van de Rijn, M., Gentles, A. J., Newman, et al

  2021

- **Integrating genomic features for non-invasive early lung cancer detection.** *Nature*

  Chabon, J. J., Hamilton, E. G., Kurtz, D. M., Esfahani, M. S., Moding, E. J., Stehr, H., Schroers-Martin, J., Nabet, B. Y., Chen, B., Chaudhuri, A. A., Liu, C. L., Hui, A. B., Jin, et al

  2020; 580 (7802): 245-251

- **Integrating genomic features for non-invasive early lung cancer detection** *NATURE*

  Chabon, J. J., Hamilton, E. G., Kurtz, D. M., Esfahani, M. S., Moding, E. J., Stehr, H., Schroers-Martin, J., Nabet, B. Y., Chen, B., Chaudhuri, A. A., Liu, C., Hui, A. B., Jin, et al

  2020

- **Noninvasive Early Identification of Therapeutic Benefit from Immune Checkpoint Inhibition.** *Cell*

  Nabet, B. Y., Esfahani, M. S., Moding, E. J., Hamilton, E. G., Chabon, J. J., Rizvi, H. n., Steen, C. B., Chaudhuri, A. A., Liu, C. L., Hui, A. B., Almanza, D. n., Stehr, H. n., Gojenola, et al

  2020

- **Dynamic Risk Profiling Using Serial Tumor Biomarkers for Personalized Outcome Prediction.** *Cell*

  Kurtz, D. M., Esfahani, M. S., Scherer, F., Soo, J., Jin, M. C., Liu, C. L., Newman, A. M., Duhrsen, U., Huttmann, A., Casasnovas, O., Westin, J. R., Ritgen, M., Bottcher, et al

  2019

- **Determining cell type abundance and expression from bulk tissues with digital cytometry** *NATURE BIOTECHNOLOGY*

  Newman, A. M., Steen, C. B., Liu, C., Gentles, A. J., Chaudhuri, A. A., Scherer, F., Khodadoust, M. S., Esfahani, M. S., Luca, B. A., Steiner, D., Diehn, M., Alizadeh, A. A.

  2019; 37 (7): 773-+

- **Detection and Surveillance of Bladder Cancer Using Urine Tumor DNA** *CANCER DISCOVERY*

  Dudley, J. C., Schroers-Martin, J., Lazzareschi, D., Shi, W., Chen, S. B., Esfahani, M. S., Trivedi, D., Chabon, J. J., Chaudhuri, A. A., Stehr, H., Liu, C., Lim, H., Costa, et al

  2019; 9 (4): 500–509

- **Determining cell type abundance and expression from bulk tissues with digital cytometry.** *Nature biotechnology*

  Newman, A. M., Steen, C. B., Liu, C. L., Gentles, A. J., Chaudhuri, A. A., Scherer, F. n., Khodadoust, M. S., Esfahani, M. S., Luca, B. A., Steiner, D. n., Diehn, M. n., Alizadeh, A. A.

  2019

- **Predicting HLA class II antigen presentation through integrated deep learning.** *Nature biotechnology*

  Chen, B. n., Khodadoust, M. S., Olsson, N. n., Wagar, L. E., Fast, E. n., Liu, C. L., Muftuoglu, Y. n., Sworder, B. J., Diehn, M. n., Levy, R. n., Davis, M. M., Elias, J. E., Altman, et al

  2019

- **Analysis of Urinary Cell-free DNA for Early Detection and Surveillance of Bladder Cancer**

  Dudley, J., Schroers-Martin, J., Lazzareschi, D., Shi, W., Chen, S., Liao, J., Alizadeh, A., Diehn, M.

  ELSEVIER SCIENCE INC.2018: 968

- **Circulating Tumor DNA Measurements As Early Outcome Predictors in Diffuse Large B-Cell Lymphoma** *JOURNAL OF CLINICAL ONCOLOGY*

  Kurtz, D. M., Scherer, F., Jin, M. C., Soo, J., Craig, A. F. M., Esfahani, M., Chabon, J. J., Stehr, H., Liu, C., Tibshirani, R., Maeda, L. S., Gupta, N. K., Khodadoust, et al

  2018; 36 (28): 2845-+

- **Circulating Tumor DNA Measurements As Early Outcome Predictors in Diffuse Large B-Cell Lymphoma.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*

Kurtz, D. M., Scherer, F., Jin, M. C., Soo, J., Craig, A. F., Esfahani, M. S., Chabon, J. J., Stehr, H., Liu, C. L., Tibshirani, R., Maeda, L. S., Gupta, N. K., Khodadoust, et al

2018: JCO2018785246

- **B cell lymphomas present immunoglobulin neoantigens.** *Blood*

  Khodadoust, M. S., Olsson, N. n., Chen, B. n., Sworder, B. n., Shree, T. n., Liu, C. L., Zhang, L. n., Czerwinski, D. K., Davis, M. M., Levy, R. n., Elias, J. E., Alizadeh, A. A.

  2018

- **Distinct biological subtypes and patterns of genome evolution in lymphoma revealed by circulating tumor DNA** *SCIENCE TRANSLATIONAL MEDICINE*

  Scherer, F., Kurtz, D. M., Newman, A. M., Stehr, H., Craig, A. F., Esfahani, M. S., Lovejoy, A. F., Chabon, J. J., Klass, D. M., Liu, C. L., Zhou, L., Glover, C., Visser, et al

  2016; 8 (364)

- **Circulating tumour DNA profiling reveals heterogeneity of EGFR inhibitor resistance mechanisms in lung cancer patients** *NATURE COMMUNICATIONS*

  Chabon, J. J., Simmons, A. D., Lovejoy, A. F., Esfahani, M. S., Newman, A. M., Haringsma, H. J., Kurtz, D. M., Stehr, H., Scherer, F., Karlovich, C. A., Harding, T. C., Durkin, K. A., Otterson, et al

  2016; 7

- **Integrated digital error suppression for improved detection of circulating tumor DNA** *NATURE BIOTECHNOLOGY*

  Newman, A. M., Lovejoy, A. F., Klass, D. M., Kurtz, D. M., Chabon, J. J., Scherer, F., Stehr, H., Liu, C. L., Bratman, S. V., Say, C., Zhou, L., Carter, J. N., West, et al

  2016; 34 (5): 547-555

- **The prognostic landscape of genes and infiltrating immune cells across human cancers** *NATURE MEDICINE*

  Gentles, A. J., Newman, A. M., Liu, C. L., Bratman, S. V., Feng, W., Kim, D., Nair, V. S., Xu, Y., Khuong, A., Hoang, C. D., Diehn, M., West, R. B., Plevritis, et al

  2015; 21 (8): 938-945

- **Toward understanding and exploiting tumor heterogeneity** *NATURE MEDICINE*

  Alizadeh, A. A., Aranda, V., Bardelli, A., Blanpain, C., Bock, C., Borowski, C., Caldas, C., Califano, A., Doherty, M., Elsner, M., Esteller, M., Fitzgerald, R., Korbel, et al

  2015; 21 (8): 846-853

- **Noninvasive monitoring of diffuse large B-cell lymphoma by immunoglobulin high-throughput sequencing.** *Blood*

  Kurtz, D. M., Green, M. R., Bratman, S. V., Scherer, F., Liu, C. L., Kunder, C. A., Takahashi, K., Glover, C., Keane, C., Kihira, S., Visser, B., Callahan, J., Kong, et al

  2015; 125 (24): 3679-3687

- **Robust enumeration of cell subsets from tissue expression profiles.** *Nature methods*

  Newman, A. M., Liu, C. L., Green, M. R., Gentles, A. J., Feng, W., Xu, Y., Hoang, C. D., Diehn, M., Alizadeh, A. A.

  2015; 12 (5): 453-457

- **Robust enumeration of cell subsets from tissue expression profiles** *NATURE METHODS*

  Newman, A. M., Liu, C. L., Green, M. R., Gentles, A. J., Feng, W., Xu, Y., Hoang, C. D., Diehn, M., Alizadeh, A. A.

  2015; 12 (5): 453-?

- **Mutations in early follicular lymphoma progenitors are associated with suppressed antigen presentation.** *Proceedings of the National Academy of Sciences of the United States of America*

  Green, M. R., Kihira, S., Liu, C. L., Nair, R. V., Salari, R., Gentles, A. J., Irish, J., Stehr, H., Vicente-Dueñas, C., Romero-Camarero, I., Sanchez-Garcia, I., Plevritis, S. K., Arber, et al

  2015; 112 (10): E1116-25

- **Mutations in early follicular lymphoma progenitors are associated with suppressed antigen presentation.** *Proceedings of the National Academy of Sciences of the United States of America*

  Green, M. R., Kihira, S., Liu, C. L., Nair, R. V., Salari, R., Gentles, A. J., Irish, J., Stehr, H., Vicente-Dueñas, C., Romero-Camarero, I., Sanchez-Garcia, I., Plevritis, S. K., Arber, et al

  2015; 112 (10): E1116-25

- **FACTERA: a practical method for the discovery of genomic rearrangements at breakpoint resolution** *BIOINFORMATICS*

Newman, A. M., Bratman, S. V., Stehr, H., Lee, L. J., Liu, C. L., Diehn, M., Alizadeh, A. A.
2014; 30 (23): 3390-3393

- **Active idiotypic vaccination versus control immunotherapy for follicular lymphoma.** *Journal of clinical oncology*
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  Shi, S., Lurain, K., Schroers-Martin, J. G., Garofalo, A., Mutter, J. A., Sugio, T., Kang, X., Tian, F., Liu, C., Olsen, M., Wilson, W. H., Diehn, M., Roschewski, et al
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- **Guiding Treatment and Clinical Management of Patients with CNS Lymphomas By Minimal-Invasive Detection of Circulating Tumor DNA in Cerebrospinal Fluid**
  Weinschenk, S., Philipp, U., Kuehn, J. C., Mueller, K. J., Fauser, J., Boeckle, D., Gebhard, I., Hinz, M., Neidert, N. N., Bleul, S., Lauer, E. M., Mutter, J. A., Alig, et al
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- **Resolving the Microarchitecture of Classic and Transformed Follicular Lymphoma By Single Cell Alignment to Spatial Transcriptomes**
  Noordenbos, T., Schroers-Martin, J. G., Hamilton, M. P., Jun, S., Sugio, T., Sworder, B. J., Steen, C., Olsen, M., Liu, C., Newman, A., Howitt, B., Natkunam, Y., Miklos, et al
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- **Ultrasensitive Circulating Tumor DNA MRD Status Predicts Treatment Failure & Complements PET/CT throughout Treatment for Early and Advanced Stage Classic Hodgkin Lymphoma**
  Boegeholz, J., Rossi, C., Goldstein, J. S., Alig, S. K., Garofalo, A., Esfahani, M., Schroers-Martin, J. G., Liu, C., Olsen, M., Kang, X., Tian, F., Kurtz, D., Andre, et al
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- **High Rates of Undetectable MRD By Phased-Seq on Interim and End of Treatment Timepoints in Untreated Advanced Stage Chl Treated with Pembrolizumab plus AVD**
  Lynch, R. C., Alig, S. K., Ujjani, C. S., Poh, C., Warren, E. H., Smith, S. D., Shadman, M., Till, B. G., Raghunathan, V., Tseng, Y. D., Ottemiller, S., Joy, B., Fessel, et al
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- **Non-Invasive Characterization and Early Detection of Post-Transplant Lymphoproliferative Disorders**
  Schroers-Martin, J. G., Garofalo, A., Shi, S., Soo, J., Luikart, H., Sworder, B. J., Boegeholz, J., Kang, X., Olsen, M., Liu, C., Tian, F., Skoda, A., Gamino, et al
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- **Circulating Tumor DNA (ctDNA) As an Early Outcome Predictor in Patients (pts) with Second-Line (2L) Large B-CellLymphoma (LBCL) after Lisocabtagene Maraleucel (liso-cel) Versus Standardof Care (SOC) Treatment (tx) from thePhase 3, Randomized Transform Study**
  Stepan, L., Ansari, S., Okal, A., Dell'Aringa, J., Thompson, E. G., Crotta, A., Chow, V. A., Abramson, J. S., Kamdar, M., Solomon, S. R., Johnston, P. B., Glass, B., Mutsaers, et al
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- **The Effect of Ibrutinib on the Myeloid Cell Compartment in Central Nervous System Lymphoma Slice Cultures**
  Kuehn, J. C., Neidert, N. N., Zhang, J., Mutter, J. A., Alig, S. K., Klingler, C., Hummel, F., Bleul, S., Ranganathan, L., Beck, J., Prinz, M., Diehn, M., Alizadeh, et al
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- **Comprehensive Characterization of the Cell States and Ecosystems in Classic Hodgkin Lymphoma Using Single-Cell RNA-Seq, Digital Deconvolution, and Machine Learning**
  Su, S., Subramanian, A., Flerlage, T., Flerlage, J. E., Rossi, C., Noordenbos, T., Schroers-Martin, J. G., Moding, E. J., Hoppe, R. T., Advani, R. H., Natkunam, Y., Alizadeh, A. A., Binkley, et al
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- **Single Institution Analysis of Lymphoma Treatment Related Post-CAR Myeloid Neoplasms**
  Hamilton, M., Phillips, N., Lee, D., Ehlinger, Z., Kramer, A., Srinagesh, H., Good, Z., Kang, X., Olsen, M., Liu, C., Tian, F., Sworder, B. J., Hosoya, et al
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- **The Clinical Impact and Cost-Effectiveness of PET-Based and Ctdna-Based Evaluation at End-of-Therapy after Frontline Treatment of DLBCL**
  Kambhampati, S., Goldstein, J. S., Buller, S., Roschewski, M., Alizadeh, A. A., Thiruvengadam, N.
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- **Dynamics of Circulating Tumor DNA As a Predictor of Outcomes with Lisocabtagene Maraleucel in Relapsed or Refractory Large B-Cell Lymphoma from the Transcend NHL-001 Study**
  Lee, D., Sworder, B. J., Stepan, L., Okal, A., Huang, C., Kang, X., Hamilton, J., Macaulay, C., Olsen, M., Liu, C., Diehn, M., Peiser, L., Kurtz, et al
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- **Modulation of the Tumor Microenvironment By CCL19 in Primary CNS Lymphomas**
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- **Distinct Molecular Aberrations of Classic Hodgkin Lymphoma in Older Adults Identified By Comprehensive Genomic Profiling**
  Rossi, C., Boegeholz, J., Goldstein, J. S., Shi, S., Su, S., Tessoulin, B., Alig, S. K., Garofalo, A., Esfahani, M., Schroers-Martin, J. G., Liu, C., Olsen, M., Kang, et al
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  Isbell, J. M., Goldstein, J., Hamilton, E. G., Liu, S., Eichholz, J., Buonocore, D. J., Rusch, V. W., Bott, M., Molena, D., Rocco, G., Yang, S., Rudin, C. M., Jones, et al
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- **Improved cfDNA methylation profiling through correction of misrepaired jagged-ends**
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- **A human lymphoma organoid model for evaluating and targeting the follicular lymphoma tumor immune microenvironment.** *Cell stem cell*
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- **Circulating Tumor DNA Dynamics as Early Outcome Predictors for Lisocabtagene Maraleucel as Second-Line Therapy for Large B-Cell Lymphoma from the Phase 3 TRANSFORM Study**
  Stepan, L., Ansari, S., Okal, A., Dell'Aringa, J., Thompson, E., Crotta, A., Chow, V. A., Abramson, J. S., Kamdar, M., Chabon, J. J., Hogan, G., Kurtz, D. M., Alizadeh, et al
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- **Longitudinal Noninvasive Surveillance & Fragmentomic Characterization of Follicular Lymphoma**
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- **Optimizing Circulating Tumor DNA Limits of Detection for DLBCL during First Line Therapy**
  Goldstein, J., Kim, W., Yoon, S., Kim, S., Roschewski, M., Westin, J., Lynch, R. C., Alig, S. K., Close, S., Chabon, J. J., Rossi, D., Wilson, W. H., Diehn, et al
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- **Prognostic Utility of Minimal Residual Disease (MRD) after Curative Intent Induction Therapy for DLBCL: A Prospective Real-World Ctdna Study**
  Sworder, B. J., Yoon, S., Kim, S., Schultz, A., Hogan, G., Close, S., Chabon, J. J., Diehn, M., Kurtz, D. M., Alizadeh, A. A., Kim, W.
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- **Inferred Gene Expression By Cell-Free DNA Profiling Allows Noninvasive Lymphoma Classification**
  Mutter, J. A., Esfahani, M., Schroers-Martin, J., Alig, S. K., Hamilton, M. P., Sworder, B. J., Tessoulin, B., Boegeholz, J., Flerlage, T., Flerlage, J. E., Binkley, M. S., Sugio, T., Rossi, et al
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- **End-of-Treatment Response Assessment after Frontline Therapy for Aggressive B-Cell Lymphoma: Landmark Comparison of a Singular PET/CT Scan Versus Ultrasensitive Circulating Tumor DNA**
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- **An Integrated Multimodal Framework for Noninvasive TCL Disease Detection and Monitoring**
  Sugio, T., Shukla, N., Khodadoust, M. S., Nesselbush, M., Kato, K., Alig, S. K., Boegeholz, J., Schroers-Martin, J., Esfahani, M., Mutter, J. A., Garofalo, A., Jun, S., Hamilton, et al
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- **Durable Remissions in Advanced Stage and Molecularly High Risk Untreated Classic Hodgkin Lymphoma with Pembrolizumab plus AVD**
  Lynch, R. C., Alig, S. K., Ujjani, C. S., Poh, C., Warren, E. H., Smith, S. D., Shadman, M., Till, B. G., Raghunathan, V., Tseng, Y. D., Ottemiller, S., Joy, B., Fessel, et al
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- **Investigating the Cell States and Prognostic Impact of Tumor Microenvironment Ecosystems in Classic Hodgkin Lymphoma**
  Su, S., Subramanian, A., Flerlage, T., Flerlage, J. E., Alig, S. K., Moding, E. J., Hoppe, R. T., Advani, R. H., Natkunam, Y., Alizadeh, A. A., Binkley, M. S.
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- **Genomic, Transcriptional, and Immunological Validation of Distinct Molecular Subtypes of Classic Hodgkin Lymphoma through Tissue-Based and Noninvasive Methods**
  Alig, S. K., Esfahani, M., Garofalo, A., Li, M., Rossi, C., Flerlage, T., Flerlage, J. E., Adams, R., Binkley, M. S., Shukla, N., Jin, M., Olsen, M., Telenius, et al
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- **Ultrasensitive ctDNA minimal residual disease monitoring in early NSCLC with PhasED-Seq**
  Isbell, J. M., Li, B. T., Razavi, P., Reis-Filo, J., Liu, S., Selenica, P., Adusumilli, P., Bott, M., Jones, D. R., Rusch, V. W., Sihag, S., Buonocore, D. J., Jee, et al
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- **RePhyNER: Overcoming limitations of access to matched germline for serial liquid biopsy applications**
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- **Improved cfDNA methylation profiling through correction of misrepaired jagged-ends**
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- **Concurrent pembrolizumab with AVD for untreated classical Hodgkin lymphoma.** *Blood*
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- **Specificity & Precision of Minimal Residual Disease Monitoring in DLBCL Using Ig-HTS**
  Shukla, N. D., Schroers-Martin, J., Kathuria, K. R., Sworder, B., Alig, S. K., Frank, M. J., Miklos, D. B., Coutre, S., Diehn, M., Khodadoust, M. S., Roschewski, M., Kurtz, D. M., Alizadeh, et al
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- **Accurate Detection of Clinically Actionable Copy Number Variants in Diverse Hematological Neoplasms By Routine Targeted Sequencing: A Comparative Performance Study**
  Mosquera, A., Hosoya, H., Jin, M. C., Esfahani, M., Schroers-Martin, J., Sworder, B., Liu, C., Spiteri, E., Natkunam, Y., Zehnder, J. L., Stehr, H., Kurtz, D. M., Alizadeh, et al

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- **Higher Rates of Severe Infection and Persistent Cytopenias in Long-Term CAR19 Responders Than after Autologous HCT: A Single Institution Study of 139 Subjects**

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- **Bendamustine, Obinutuzumab and Venetoclax Results in High Complete Response Rates in Untreated Mantle Cell Lymphoma**

  Greenwell, I., Switchenko, J. M., Craig, A. F. M., Alizadeh, A. A., Allen, P. B., Escobar, A., Valla, K., Abousaud, A., Parikh, P., Roberts, D., Neely, J. J., Palmer, A., Blum, et al

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- **Tumor Microenvironment Determinants of Immunotherapy Response Identified By Integrated Host & Viral Analysis of Post-Transplant Lymphoproliferative Disorders**

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