



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**

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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
- 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
- A Study Of PF-05082566 As A Single Agent And In Combination With Rituximab, 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
- Chemoembolization With or Without Sorafenib Tosylate in Treating Patients With Liver Cancer That Cannot Be Removed by Surgery, 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
- Oxaliplatin, Leucovorin Calcium, and Fluorouracil With or Without Bevacizumab in Treating Patients Who Have Undergone Surgery for Stage II Colon Cancer, Not Recruiting
- Phase 1-2 of a CpG-Activated Whole Cell Vaccine Followed by Autologous Immunotransplant for MCL, Not Recruiting
- VTX-2337 in Combination With Radiotherapy in Patients Low-Grade B-cell Lymphomas, Not Recruiting

Teaching

COURSES

2022-23

- Seminar in Immunology: IMMUNOL 311 (Aut, Win, Spr)

2021-22

- Seminar in Immunology: IMMUNOL 311 (Aut, Win, Spr)

2020-21

- Seminar in Immunology: IMMUNOL 311 (Aut, Win, Spr)

STANFORD ADVISEES

Med Scholar Project Advisor

Andrea Garofalo, Dong Hur, Michael Jin, Karan Kathuria

Doctoral Dissertation Reader (AC)

Monica Nesselbush, Eric Wolfsberg

Postdoctoral Faculty Sponsor

Maxime Fontanilles, Jurik Mutter, Troy Noordenbos, Cedric Rossi, Takeshi Sugio

Doctoral Dissertation Advisor (AC)

Andrea Garofalo, Nick Phillips

Doctoral Dissertation Co-Advisor (AC)

Shuyu Shi

Postdoctoral Research Mentor

Mark Hamilton, Jurik Mutter, Cedric Rossi, Takeshi Sugio, Rui Wang

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

Publications

PUBLICATIONS

- **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., Dührsen, U., Hüttmann, 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. 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., Korb, 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*
Levy, R., Ganjoo, K. N., Leonard, J. P., Vose, J. M., Flinn, I. W., Ambinder, R. F., Connors, J. M., Berinstein, N. L., Belch, A. R., Bartlett, N. L., Nichols, C., Emmanouilides, C. E., Timmerman, et al
2014; 32 (17): 1797-1803
- **Transient expression of Bcl6 is sufficient for oncogenic function and induction of mature B-cell lymphoma** *NATURE COMMUNICATIONS*
Green, M. R., Vicente-Duenas, C., Romero-Camarero, I., Liu, C. L., Dai, B., Gonzalez-Herrero, I., Garcia-Ramirez, I., Alonso-Escudero, E., Iqbal, J., Chan, W. C., Campos-Sanchez, E., Orfao, A., Pintado, et al
2014; 5
- **An ultrasensitive method for quantitating circulating tumor DNA with broad patient coverage.** *Nature medicine*
Newman, A. M., Bratman, S. V., To, J., Wynne, J. F., Eclov, N. C., Modlin, L. A., Liu, C. L., Neal, J. W., Wakelee, H. A., Merritt, R. E., Shrager, J. B., Loo, B. W., Alizadeh, et al
2014; 20 (5): 548-554
- **An ultrasensitive method for quantitating circulating tumor DNA with broad patient coverage** *NATURE MEDICINE*
Newman, A. M., Bratman, S. V., To, J., Wynne, J. F., Eclov, N. C., Modlin, L. A., Liu, C. L., Neal, J. W., Wakelee, H. A., Merritt, R. E., Shrager, J. B., Loo, B. W., Alizadeh, et al
2014; 20 (5): 552-558
- **Hierarchy in somatic mutations arising during genomic evolution and progression of follicular lymphoma.** *Blood*
Green, M. R., Gentles, A. J., Nair, R. V., Irish, J. M., Kihira, S., Liu, C. L., Kela, I., Hopmans, E. S., Myklebust, J. H., Ji, H., Plevritis, S. K., Levy, R., Alizadeh, et al
2013; 121 (9): 1604-1611
- **Therapeutic Antibody Targeting of CD47 Synergizes with Rituximab to Completely Eradicate Human B-Cell Lymphoma** *Cell*
Chao, M. P., Majeti R.
2010; 142 (5): 699-713
- **Molecular Outcome Prediction in Diffuse Large-B-Cell Lymphoma** *NEW ENGLAND JOURNAL OF MEDICINE*
Alizadeh, A. A., Gentles, A. J., Lossos, I. S., Levy, R.
2009; 360 (26): 2794-2795
- **Distinct types of diffuse large B-cell lymphoma identified by gene expression profiling** *NATURE*
Alizadeh, A. A., Eisen, M. B., Davis, R. E., Ma, C., Lossos, I. S., Rosenwald, A., Boldrick, J. G., Sabet, H., Tran, T., Yu, X., Powell, J. I., Yang, L. M., Marti, et al
2000; 403 (6769): 503-511
- **A human lymphoma organoid model for evaluating and targeting the follicular lymphoma tumor immune microenvironment.** *Cell stem cell*
Kastenschmidt, J. M., Schroers-Martin, J. G., Sworder, B. J., Sureshchandra, S., Khodadoust, M. S., Liu, C. L., Olsen, M., Kurtz, D. M., Diehn, M., Wagar, L. E., Alizadeh, A. A.

2024

- **Specificity of Immunoglobulin High-Throughput Sequencing Minimal Residual Disease Monitoring in Non-Hodgkin Lymphomas.** *Blood advances*
Shukla, N., Schroers-Martin, J., Sworder, B., Kathuria, K. R., Alig, S., Frank, M. J., Miklos, D. B., Coutre, S. E., Diehn, M., Khodadoust, M. S., Roschewski, M. J., Kurtz, D. M., Alizadeh, et al
2023
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- **Accurate Detection of Clinically Actionable Copy Number Variants in Diverse Hematological Neoplasms By Routine Targeted Sequencing: A Comparative Performance Study**
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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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- **Circulating Tumor DNA in Untreated Classical Hodgkin Lymphoma Patients Treated with Pembrolizumab and Chemotherapy: Dynamic Response Assessment and Correlation with Baseline Metabolic Tumor Volume**
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- **Distinct Molecular Subtypes of Classic Hodgkin Lymphoma Identified By Comprehensive Noninvasive Profiling**
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- **Viral cfDNA Profiling Reveals Distinct EBV Subtypes and Stratifies Risk in Hodgkin Lymphomas**
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- **Activating Immune Effectors and Dampening Immune Suppressors Generates Successful Therapeutic Cancer Vaccination in Patients with Lymphoma**
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- **MRD-Negativity As a Potential Surrogate Endpoint after Frontline DLBCL Therapy: Pooled Analysis of Trials & Implications for Clinical Trial Design**
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- **Determinants of Resistance to Engineered T-Cell Therapies Targeting CD19 in Large B-Cell Lymphomas**
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- **A phase 1/2 study of lenalidomide and obinutuzumab with CHOP for newly diagnosed DLBCL.** *Blood advances*
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 - **S1918: A Phase II/III Randomized Study of R-Minichop with or without Oral Azacitidine (CC-486) in Participants Age 75 Years or Older with Newly Diagnosed Diffuse Large B Cell Lymphoma, Grade IIIb Follicular Lymphoma, Transformed Lymphoma, and High-Grade B-Cell Lymphomas with MYC and BCL2 and/or BCL6 Rearrangements**
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 - **Leveraging phased variants for personalized minimal residual disease detection in localized non-small cell lung cancer.**
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- **Heterogeneity of Regulatory T Cells in B-Cell Non-Hodgkin Lymphoma**
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- **CD58 Aberrations Limit Durable Responses to CD19 CAR in Large B Cell Lymphoma Patients Treated with Axicabtagene Ciloleucel but Can be Overcome through Novel CAR Engineering**
Majzner, R. G., Frank, M. J., Mount, C., Tousley, A., Kurtz, D. M., Sworder, B., Murphy, K. A., Manousopoulou, A., Kohler, K., Rotiroti, M., Spiegel, J. Y., Natkunam, Y., Younes, et al
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- **Bendamustine, Obinutuzumab and Venetoclax As Induction Therapy for Untreated Mantle Cell Lymphoma**
Greenwell, I., Switchenko, J. M., Maddocks, K. J., Kahl, B. S., Craig, A. M., Alizadeh, A. A., Allen, P. B., Marbury, A., Escobar, A., Valla, K., Williams, M., Parikh, P., Roberts, et al
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- **Recurrent Crebbp Mutations in Follicular Lymphoma Appear Localized to the Committed B-Cell Lineage**
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- **A noninvasive approach for early prediction of therapeutic benefit from immune checkpoint inhibition for lung cancer**
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Luca, B. A., Steen, C. B., Azizi, A., Matusiak, M., Przybyl, J., Neishaboori, N., Perez, A., Diehn, M., Alizadeh, A. A., van de Rijn, M., Gentles, A. J., Newman, A. M.
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- **Chromatin accessibility patterns in cell-free DNA reveal tumor heterogeneity**
Esfahani, M., Mehrmohamadi, M., Steen, C. B., Hamilton, E. G., King, D. A., Soo, J., Macaulay, C., Jin, M., Kurtz, D. M., Nabet, B., Moding, E., Chabon, J., Newman, et al
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- **Analytical validation of iSort digital cytometry for leukocyte enumeration in clinical tumor specimens.**
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- **Analytical validation of digital cytometry (iSort) for leukocyte enumeration using stored blood.**
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- **A mid-chemoradiation dynamic risk model integrating tumor features and ctDNA analysis for lung cancer outcome prediction.**
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- **Early ctDNA response assessment for prediction of platinum sensitivity in small cell lung cancer.**
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- **KEAP1/NFE2L2 mutations to predict local recurrence after radiotherapy but not surgery in localized non-small cell lung cancer.**
Binkley, M. S., Jeon, Y., Nesselbush, M., Moding, E. J., Nabet, B., Almanza, D. S., Yoo, C., Kurtz, D., Owen, S., Backhus, L., Berry, M. F., Shrager, J. B., Ramchandran, et al
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- **Next Generation Sequencing of Cerebrospinal Fluid to Improve Diagnostic Sensitivity, Detect Spatial Heterogeneity, and Predict Outcomes for Advanced Lung Cancer Patients with Leptomeningeal Carcinomatosis**
Azad, T., Nanjo, S., Chabon, J., Jin, M., Connolly, I., Ko, R., Yoo, C., Iv, M., Nagpal, S., Gephart, M., Alizadeh, A., Diehn, M.
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