Ash A. Alizadeh, MD/PhD
Moghadam Family Professor
Medicine - Oncology

CLINICAL OFFICES
- Stanford Comprehensive Cancer Center
  875 Blake Wilbur Dr
  MC 6560
  Stanford, CA 94305
  Tel (650) 498-6000  Fax (650) 724-5203

ACADEMIC CONTACT INFORMATION
- Alternate Contact
  Administrative Assistant
  Tel 650.723.5290

Bio

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. Ebough, 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)
• Garrielle'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 (2009)
• 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
• Internship: Stanford University Internal Medicine Residency (2004) 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/
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 Brutinib 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
- 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)

2019-20
• Seminar in Immunology: IMMUNOL 311 (Aut, Win, Spr)

STANFORD ADVISEES

Med Scholar Project Advisor
Andrea Garofalo

Postdoctoral Faculty Sponsor
Stefan Alig, Jan Lukas Boegeholz, Jurik Mutter, Cedric Rossi, Takeshi Sugio

Doctoral Dissertation Advisor (AC)
Andrea Garofalo

Doctoral Dissertation Co-Advisor (AC)
Emily Hamilton

Postdoctoral Research Mentor
Stefan Alig, Jan Lukas Boegeholz, Mark Hamilton, Jurik Mutter, Cedric Rossi, Joe Schroers-Martin, 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

• Molecular Monitoring of Lymphomas. Annual review of pathology
  Schroers-Martín, 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., Fileri, 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., Lazzreschi, 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
  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., Eilsner, 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.
• 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 phase 1/2 study of lenalidomide and obinutuzumab with CHOP for newly diagnosed DLBCL. Blood advances
Cherrin, H. J., Aigl, S., Oki, Y., Nastoupil, L. J., Fayad, L. E., Neelapu, S. S., Turturro, F., Hagemeister, F. B., Craig, A., Macaulay, C., Rodriguez, M. A., Lee, H. J., McDonnell, et al
2022

• Genomic Profiling of Bronchoalveolar Lavage Fluid in Lung Cancer. Cancer research
Nair, V. S., Hui, A. B., Chabon, J. J., Shahrokhi Esfahani, M., Stehr, H., Nabet, B. Y., Zhou, L., Chaudhuri, A. A., Benson, J. A., Ayers, K., Bedi, H., Ramsey, M. C., Van Wert, et al

2022

- Cellular and humoral immune response to SARS-CoV-2 vaccination and booster dose in immunosuppressed patients: An observational cohort study. Journal of clinical virology : the official publication of the Pan American Society for Clinical Virology
  Yang, L. M., Costales, C., Ramanathan, M., Bulterys, P. L., Murugesan, K., Schroers-Martin, J., Alizadeh, A. A., Boyd, S. D., Brown, J. M., Nadeau, K. C., Nadimpalli, S. S., Wang, A. X., Busque, et al
  2022; 153: 105217

- Analysis of circulating tumor DNA in the phase 2 BTCRC LUN 16-081 trial of consolidation nivolumab with or without ipilimumab after chemoradiation in stage III non-small cell lung cancer.
  Jun, S., Shukla, N., Durm, G., Hui, A. B., Cao, S., Kunder, C., Alizadeh, A. A., Hanna, N. H., Diehn, M.
  LIPPINCOTT WILLIAMS & WILKINS.2022

- Long-term outcomes and circulating tumor DNA analysis from a phase I/II study of lenalidomide and obinutuzumab with CHOP for newly diagnosed diffuse large B-cell lymphoma.
  Cherng, H., Alig, S., Oki, Y., Nastouplil, L. J., Fayad, L., Neelapu, S., Turturro, F., Hagemeister, F. B., Rodriguez, M., McDonnell, T., Flowers, C., Vega, F., Green, et al
  LIPPINCOTT WILLIAMS & WILKINS.2022

- Early Assessment of Chemotherapy Response in Advanced Non-Small Cell Lung Cancer with Circulating Tumor DNA. Cancers
  Yaung, S. J., Woestmann, C., Ju, C., Ma, X. M., Gattam, S., Zhou, Y., Xi, L., Pal, S., Balasubramanyam, A., Tikoo, N., Heussel, C. P., Thomas, M., Kriegsmann, et al
  2022; 14 (10)

- CD20-Targeted Therapy Ablates De Novo Antibody Response to Vaccination but Spares Pre-Established Immunity. Blood cancer discovery
  Shree, T., Shankar, V., Lohmeyer, J. J., Czerwinski, D. K., Schroers-Martin, J. G., Rodriguez, G. M., Beygi, S., Kanegai, A. M., Corbelli, K. S., Gabriel, E., Kurtz, D. M., Khodadoust, M. S., Gupta, et al
  2022

- Circulating Tumor DNA in Lymphoma: Principles and Future Directions. Blood cancer discovery
  Roschewski, M., Rossi, D., Kurtz, D. M., Alizadeh, A. A., Wilson, W. H.
  1800; 3 (1): 5-15

- Tumor-Confirmed Follicular Lymphoma Mutations Are Detectable in Peripheral Blood Years Prior to Clinical Diagnosis
  Schroers-Martin, J. G., Soo, J., Brison, G., Scherer, F., Kurtz, D. M., Sworder, B., Khodadoust, M. S., Jin, M. C., Bru, A., Liu, C., Stehr, H., Vineis, P., Natkunam, et al
  AMER SOC HEMATOLOGY.2021

- Diversity of Intratumoral Regulatory T Cells in Non-Hodgkin Lymphoma
  Spasevska, I., Sharma, A., Steen, C. B.,Josefsson, S., Blaker, Y., Rusted, E. H., Meyer, S., Chellappa, S., Kushekhar, K., Kolstad, A., Beiske, K., Holte, H., Ostenstad, et al
  AMER SOC HEMATOLOGY.2021

- Phase 2 Study of Acalabrutinib Window Prior to Frontline Therapy in Untreated Aggressive B-Cell Lymphoma: Preliminary Results and Correlatives of Response to Acalabrutinib
  Roschewski, M., Phelan, J. D., Pittaluga, S., Melani, C., Lakhotia, R., Chabon, J. J., Muppidi, J. R., Lurain, K. A., Simard, J., Pradhan, A., Hillsman, A., Rilko, M., Steinberg, et al
  AMER SOC HEMATOLOGY.2021

- 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
  Brem, E. A., Li, H., Beaven, A. W., Caimi, P. F., Cerchietti, L., Alizadeh, A. A., Olin, R. L., Henry, N., Dillon, H., Little, R. F., Laubach, C., Leblanc, M. L., Friedberg, et al
  AMER SOC HEMATOLOGY.2021

- Noninvasive Cell-of-Origin Classification of Diffuse Large B-Cell Lymphoma Using Inferred Gene Expression from Cell-Free DNA Sequencing
  Esfahani, M., Alig, S., Mehrmohamadi, M., Hamilton, E. G., King, D. A., Schultz, A., Steen, C. B., Macaulay, C., Sworder, B., Kurtz, D. M., Diehn, M., Alizadeh, A. A.
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