

# Stanford

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## Ash A. Alizadeh, MD/PhD

Associate Professor of Medicine (Oncology)

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

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#### 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

- Associate 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)
- Gabrielle'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**

- 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
- Medical Education: Stanford University School of Medicine Registrar (2003) CA
- Board Certification: Medical Oncology, American Board of Internal Medicine (2009)
- Board Certification: Hematology, American Board of Internal Medicine (2009)
- Board Certification: Internal Medicine, American Board of Internal Medicine (2008)
- 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/](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

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### 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

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### COURSES

2018-19

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

#### 2017-18

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

#### 2016-17

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

#### 2015-16

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

### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Binbin Chen, Chris Dove

#### Postdoctoral Faculty Sponsor

Stefan Alig, Jan Lukas Boegeholz, Mohammad Shahrokh Esfahani, Chloe Steen, Mi Yang

#### Doctoral Dissertation Co-Advisor (AC)

Emily Hamilton

#### Postdoctoral Research Mentor

Stefan Alig, Jan Lukas Boegeholz, Daniel King, Brian Sworder, Mi Yang

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

### Publications

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#### PUBLICATIONS

- **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., Khodadoust, M. S., Esfahani, M. S., Luca, B. A., Steiner, D., Diehn, M., Alizadeh, A. A.  
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., Chen, B., Sworder, B., Shree, T., Liu, C. L., Zhang, L., Czerwinski, D. K., Davis, M. M., Levy, R., 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
- **Targetable genetic alterations of TCF4 (E2-2) drive immunoglobulin expression in diffuse large B cell lymphoma.** *Science translational medicine*  
Jain, N., Hartert, K., Tadros, S., Fiskus, W., Havranek, O., Ma, M. C., Bouska, A., Heavican, T., Kumar, D., Deng, Q., Moore, D., Pak, C., Liu, et al  
2019; 11 (497)
- **Early Detection of Post-Transplant Lymphoproliferative Disorder Using Circulating Tumor DNA**  
Soo, J., Schroers-Martin, J., Garofalo, A., Kurtz, D., D'Emilio, N., Luikart, H., Alizadeh, A., Khush, K.  
ELSEVIER SCIENCE INC.2019: S12-S13
- **Prognostic Value of Circulating Tumor DNA in Diffuse Large B-Cell Lymphoma Reply** *JOURNAL OF CLINICAL ONCOLOGY*  
Kurtz, D. M., Scherer, F., Jin, M. C., Soo, J., Craig, A. M., Esfahani, M. S., Chabon, J. J., Stehr, H., Liu, C., Tibshirani, R., Maeda, L. S., Gupta, N. K., Khodadoust, et al  
2019; 37 (9): 755-+

- **B-cell lymphomas present immunoglobulin neoantigens** *BLOOD*  
Khodadoust, M. S., Olsson, N., Chen, B., Sworder, B., Shree, T., Liu, C., Zhang, L., Czerwinski, D. K., Davis, M. M., Levy, R., Elias, J. E., Alizadeh, A. A. 2019; 133 (8): 878–81
- **Reply to J. Wang et al.** *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  
2019: JCO1801907
- **Spatial mapping of the immune microenvironment in primary triple-negative breast cancer (TNBC) and association with neoadjuvant therapy response**  
Telli, M. L., Vinayak, S., Khodadoust, M. S., Gruber, J. J., Ford, J. M., Sanchez, P., Banayan, N., Azimi, S., Tume, P. C., Newman, A. M., Alizadeh, A. A. AMER ASSOC CANCER RESEARCH.2019
- **Lymphoma Virome Dynamics Revealed By Cell-Free DNA Sequencing**  
Schroers-Martin, J. G., Garofalo, A., Soo, J., Jin, M. C., Kurtz, D. M., Buedts, L., Duehrsen, U., Huettmann, A., Cottreau, A., Meignan, M., Casasnovas, O., Westin, J. R., Gaidano, et al  
AMER SOC HEMATOLOGY.2018
- **Distinct Chromatin Accessibility Profiles of Lymphoma Subtypes Revealed By Targeted Cell Free DNA Profiling**  
Mehrmohamadi, M., Esfahani, M. S., Soo, J., Scherer, F., Schroers-Martin, J. G., Chen, B., Kurtz, D. M., Hamilton, E., Liu, C., Diehn, M., Alizadeh, A. A. AMER SOC HEMATOLOGY.2018
- **Noninvasive Genotyping and Monitoring of Classical Hodgkin Lymphoma**  
Jin, M. C., Schroers-Martin, J. G., Kurtz, D. M., Buedts, L., Esfahani, M. S., Macaulay, C., Sworder, B., Soo, J., Glover, C., Roschewski, M., Wilson, W. H., Duhrsen, U., Huettmann, et al  
AMER SOC HEMATOLOGY.2018
- **Analysis of Circulating Tumor DNA Kinetics during Stereotactic Ablative Radiation Therapy for Non-Small Cell Lung Cancer**  
Chen, E. L., Chaudhuri, A. A., Nabet, B. Y., Chabon, J. J., Merriott, D. J., Loo, B. W., Alizadeh, A. A., Diehn, M. ELSEVIER SCIENCE INC.2018: E676
- **Surgical and molecular characterization of primary and metastatic disease in a neuroendocrine tumor arising in a tailgut cyst** *COLD SPRING HARBOR MOLECULAR CASE STUDIES*  
Erdrich, J., Schaberg, K. B., Khodadoust, M. S., Zhou, L., Shelton, A. A., Visser, B. C., Ford, J. M., Alizadeh, A. A., Quake, S. R., Kunz, P. L., Beausang, J. F. 2018; 4 (5)
- **Quantitating circulating tumor DNA in translocation-positive sarcoma patients using CAPP-Seq**  
Shah, A., Azad, T. D., Chabon, J. J., Brees, M., Tanasa, B., Spillinger, A., Leung, S. G., Diehn, M., Alizadeh, A. A., Sweet-Cordero, E. AMER ASSOC CANCER RESEARCH.2018
- **Circulating tumor DNA (ctDNA) in B-cell lymphoma**  
Scherer, F., Kurtz, D. M., Newman, A. M., Stehr, H., Craig, A. M., Esfahani, M. S., Lovejoy, A. F., Chabon, J. J., Klass, D. M., Green, M. R., Liu, C. L., Zhou, L., Glover, et al  
WILEY.2018: 16–17
- **Surgical and molecular characterization of primary and metastatic disease in a neuroendocrine tumor arising in a tailgut cyst.** *Cold Spring Harbor molecular case studies*  
Erdrich, J., Schaberg, K., Khodadoust, M. S., Zhou, L., Shelton, A. A., Visser, B. C., Ford, J. M., Alizadeh, A. A., Quake, S. R., Kunz, P. L., Beausang, J. F. 2018
- **Circulating Tumor DNA Quantitation for Early Response Assessment of Immune Checkpoint Inhibitors for Metastatic Non-Small Cell Lung Cancer**  
Chaudhuri, A. A., Nabet, B. Y., Merriott, D. J., Jin, M., Chen, E. L., Chabon, J. J., Newman, A. M., Stehr, H., Say, C., Carter, J. N., Walters, S., Becker, H., Das, et al  
ELSEVIER SCIENCE INC.2018: E1–E2
- **Combination Approach for Detecting Different Types of Alterations in Circulating Tumor DNA in Leiomyosarcoma** *CLINICAL CANCER RESEARCH*  
Przybyl, J., Chabon, J. J., Spans, L., Ganjoo, K. N., Vennam, S., Newman, A. M., Forgo, E., Varma, S., Zhu, S., Debiec-Rychter, M., Alizadeh, A. A., Diehn, M., van de Rijn, et al  
2018; 24 (11): 2688–99
- **Genomic feature selection by coverage design optimization** *Journal of Applied Statistics*

- Reid, S., Newman, A. M., Diehn, M., Alizadeh, A. A., Tibshirani, R.  
2018
- **Detection and surveillance of bladder cancer using urine tumor DNA.** *Cancer discovery*  
Dudley, J. C., Schroers-Martin, J., Lazzareschi, D. V., Shi, W. Y., Chen, S. B., Esfahani, M. S., Trivedi, D., Chabon, J. J., Chaudhuri, A. A., Stehr, H., Liu, C. L., Lim, H., Costa, et al  
2018
  - **Genomic Feature Selection by Coverage Design Optimization.** *Journal of applied statistics*  
Reid, S., Newman, A. M., Diehn, M., Alizadeh, A. A., Tibshirani, R.  
2018; 45 (14): 2658–76
  - **Genomic Profiling of Bronchoalveolar Lavage Fluid in Patients with Non-Small Cell Lung Cancer**  
Nair, V. S., Li, A., Stehr, H., Chabon, J., Chaudhuri, A., Zhou, L., Naemi, H., Ayers, K., Ramsey, M., Bedi, H. S., Van Wert, R., Sung, A. W., Lui, et al  
AMER THORACIC SOC.2018
  - **Combination approach for detecting different types of alterations in circulating tumor DNA in leiomyosarcoma.** *Clinical cancer research : an official journal of the American Association for Cancer Research*  
Przybyl, J., Chabon, J. J., Spans, L., Ganjoo, K., Vennam, S., Newman, A. M., Forgó, E., Varma, S., Zhu, S., Debiec-Rychter, M., Alizadeh, A. A., Diehn, M., van de Rijn, et al  
2018
  - **Profiling Tumor Infiltrating Immune Cells with CIBERSORT.** *Methods in molecular biology (Clifton, N.J.)*  
Chen, B., Khodadoust, M. S., Liu, C. L., Newman, A. M., Alizadeh, A. A.  
2018; 1711: 243–59
  - **Circulating tumor DNA levels correlate with response to treatment in LMS patients**  
Przybyl, J., Chabon, J. J., Spans, L., Ganjoo, K., Vennam, S., Newman, A. M., Forgó, E., Varma, S., Zhu, S., Debiec-Rychter, M., Alizadeh, A., Diehn, M., van de Rijn, et al  
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  - **KLHL6 Is Preferentially Expressed in Germinal Center-Derived B-Cell Lymphomas** *AMERICAN JOURNAL OF CLINICAL PATHOLOGY*  
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