Stanford

David Kurtz

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CLINICAL OFFICE (PRIMARY)

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ACADEMIC CONTACT INFORMATION

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Bio

BIO

My research focuses on developing and translating genomic technologies in oncology. Specifically, I focus on methods for detecting, monitoring, and studying malignancies from cell-free DNA, with a particular emphasis on non-Hodgkin lymphomas (NHLs), lung cancer, as well as other tumor types. I aim to create tools to rapidly detect and quantify tumors and their response to chemotherapy and immunotherapy, thereby enabling personalized therapies. Toward this end, I utilize tools from a wide range of disciplines, including bioengineering, computational biology, and medical oncology. I have developed and implemented multiple next generation sequencing approaches for detection of circulating tumor DNA (ctDNA) in lymphomas, including immunoglobulin high-throughput sequencing and targeted approaches such as Cancer Personalized Profiling by Deep Sequencing (CAPP-Seq). This research has directly led to the translation of ctDNA into the clinic in multiple ongoing novel clinical trial paradigms.

In addition to development of novel molecular biology tools, I also have interest in developing tools to utilize liquid biopsies for clinically relevant applications. An example of this is the Continuous Individualized Risk Index, or CIRI, a novel computational technique to dynamically determine outcome probabilities for individual patients utilizing risk-predictors acquired over time. CIRI demonstrated improved outcome prediction across several cancer types as well as the ability to predict specific subgroups of patients who would benefit from targeted therapies, suggesting utility in precision diagnostics. Additionally, I and others developed the Cancer Likelihood in Plasma, or CLiP method, a novel molecular biology and computational approach to leverage diverse features of cell-free DNA sequencing for non-invasive cancer screening. By applying CLiP to patients undergoing radiographic screening for lung cancer (Lung-CLiP), we demonstrated high sensitivity and specificity for detection of lung cancer in patients, including those with small early-stage tumors.

My ongoing research is currently focused on applying tumor and cell-free DNA sequencing toward understanding mechanisms of disease response and resistance in diverse malignancies, including lymphomas, lung cancer, and other hematologic neoplasms. I am additionally developing new technologies to detect alternative genetic and epigenetic tumor features from liquid biopsies, including sensitive detection of copy number alterations, gene expression inferences, and tumor heterogeneity deconvolution.

CLINICAL FOCUS

- Medical Oncology
- Lymphoma

ACADEMIC APPOINTMENTS

- Member, Stanford Cancer Institute

HONORS AND AWARDS

- Physician-Scientist Training Award, Damon Runyon Cancer Research Foundation (2016-2018)
- Åke Bertil Eriksson Endowed Young Investigator Award, ASCO Conquer Cancer Foundation (2016)
- Lymphoma Clinical Research Mentoring Program Scholar, Lymphoma Research Foundation (2014)

PROFESSIONAL EDUCATION

- PhD, Stanford University , Bioengineering (2018)
- Fellowship: Stanford University Hematology and Oncology Fellowship (2018) CA
- Board Certification: Medical Oncology, American Board of Internal Medicine (2016)
- Board Certification: Internal Medicine, American Board of Internal Medicine (2012)
- Residency: Stanford University Internal Medicine Residency (2011) CA
- Medical Education: Mayo Clinic School of Medicine (2009) MN

LINKS

- Kurtz Lab: https://med.stanford.edu/kurtzlab.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Implementation of noninvasive detection of malignancies in the clinic remains difficult due to both technical and clinical challenges. These include necessary improvements in sensitivity and specificity of biomarkers, as well as demonstration of clinical utility of these assays. My research focuses on technical development and implementation of assays to detect and track cancers in order to facilitate personalized disease management. This includes development of methods to detect non-Hodgkin lymphoma through circulating tumor DNA (ctDNA), as well as defining the clinical utility of this assay. My current research is focused on utilizing ctDNA to answer clinically relevant questions, enabling personalized treatment paradigms.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Hematology (Fellowship Program)
- Oncology (Fellowship Program)

Publications

PUBLICATIONS

- **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

- **Disease Characterization and Response Prediction in Myeloma Patients Undergoing Conventional and Cellular Therapies from Circulating Tumor DNA**

  Hosoya, H., Carleton, M., Tanaka, K. L., Sworder, B., Hovanky, V., Duran, G. E., Zhang, T. Y., Khodadoust, M. S., Miklos, D. B., Arai, S., Iberri, D., Liedtke, M., Sidana, et al

  AMER SOC HEMATOLOGY.2022: 1546-1548

- **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

- **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

- **A mathematical model of ctDNA shedding predicts tumor detection size.** *Science advances*

  Avanzini, S., Kurtz, D. M., Chabon, J. J., Moding, E. J., Hori, S. S., Gambhir, S. S., Alizadeh, A. A., Diehn, M., Reiter, J. G.

  2020; 6 (50)

- **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

- **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

- **Prognostication with circulating tumor DNA: is it ready for prime time?** *Hematology. American Society of Hematology. Education Program*

  Kurtz, D. M.

  2019; 2019 (1): 47–52

- **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

- **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)

- **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

- **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

- **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

- **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

- **Genomic abnormalities involving class I HLA are common in advanced cutaneous T-cell lymphoma**
  Kwang, A., Duran, G., Fernandez-Pol, S., Li, S., Najidh, S., Torres, A., Herrera, M., Wang, E., Kurtz, D., Kim, Y. H., Khodadoust, M.
  ELSEVIER SCI LTD.2023: S14

- **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

- **Cell-free DNA in large B-cell lymphoma: MRD and beyond.** *Seminars in hematology*
  Sworder, B. J., Kurtz, D. M.
  2023

- **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

- **Circulating Tumor DNA Profiling for Detection, Risk Stratification, and Classification of Brain Lymphomas.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
  Mutter, J. A., Alig, S. K., Esfahani, M. S., Lauer, E. M., Mitschke, J., Kurtz, D. M., Kühn, J., Bleul, S., Olsen, M., Liu, C. L., Jin, M. C., Macaulay, C. W., Neidert, et al
  2022: JCO2200826

- **Polatuzumab vedotin with infusional chemotherapy (Pola-DA-EPCH-R) for untreated aggressive B-cell non-Hodgkin lymphomas.** *Blood advances*
  Lynch, R. C., Poh, C., Ujjani, C. S., Warren, E. H., Smith, S. D., Shadman, M., Morris, K., Lee, S., Rasmussen, H., Ottemiller, S., Shelby, M., Keo, S., Verni, et al
  2022

- **Viral cfDNA Profiling Reveals Distinct EBV Subtypes and Stratifies Risk in Hodgkin Lymphomas**
  Garofalo, A., Alig, S. K., Schroers-Martin, J., Shyam, R., Olsen, M., Kurtz, D. M., Rossi, C., Schultz, A., Kathuria, K. R., Liu, C., Spina, V., Flerlage, J. E., Castellino, et al
  AMER SOC HEMATOLOGY.2022: 1318-1319

- **Clonal Hematopoiesis Driven By Recurrent Somatic Mutations but Not with Recurrent Copy Number Alterations Is Associated with Inferior Outcomes in DLBCL after Induction Chemotherapy, but Not CAR19 Therapy**
  Boegeholz, J., Alig, S. K., Sworder, B., Schroers-Martin, J., Macaulay, C., Craig, A. F. M., Duehrsen, U., Huettmann, A., Westin, J., Cherng, H. J., Miklos, D. B., Frank, M. J., Diehn, et al
  AMER SOC HEMATOLOGY.2022: 8609-8610

- **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
  AMER SOC HEMATOLOGY.2022: 10712-10713

- **Higher Rates of Severe Infection and Persistent Cytopenias in Long-Term CAR19 Responders Than after Autologous HCT: A Single Institution Study of 139 Subjects**
  Hamilton, M. P., Liu-Fei, F. C., Alig, S. K., Tamaresis, J., Esfahani, M., Good, Z., Sworder, B., Schroers-Martin, J., Liu, C., Severinsen, F., Hanson, P. J., Lu, Y., Lowsky, et al
  AMER SOC HEMATOLOGY.2022: 7545-7547

- **Ultrasensitive Circulating Tumor DNA (ctDNA) Dynamics after Autologous CD30.CAR-T Cell Therapy for Relapsed or Refractory (r/r) Classical Hodgkin Lymphoma (CHARIOT Trial)**
  Kurtz, D. M., Ahmed, S., Tong, C., Mei, M., Ding, C., Flinn, I. W., Riedell, P. A., Hogan, G. J., Schultz, A., Chabon, J. J., Heslop, H. E., Myo, A., Alizadeh, et al

AMER SOC HEMATOLOGY.2022: 2378-2380

- **MRD-Negativity As a Potential Surrogate Endpoint after Frontline DLBCL Therapy: Pooled Analysis of Trials & Implications for Clinical Trial Design**
  Roschewski, M., Kurtz, D. M., Westin, J., Lynch, R. C., Macaulay, C., Kuffer, C., Hogan, G. J., Close, S., Chabon, J. J., Rossi, D., Diehn, M., Alizadeh, A. A., Schultz, et al
  AMER SOC HEMATOLOGY.2022
- **Ultrasensitive MRD Profiling Predicts Outcomes in DLBCL after Frontline Therapy with Tafasitamab in Combination with Lenalidomide and R-CHOP**
  Kurtz, D. M., Hogan, G. J., Schultz, A., Kopeckova, K., Kuffer, C., Blair, D., Wagner, S., Close, S., Diehn, M., Chabon, J. J., Alizadeh, A. A., Westin, J.
  AMER SOC HEMATOLOGY.2022: 3498-3499
- **Determinants of Resistance to Engineered T-Cell Therapies Targeting CD19 in Large B-Cell Lymphomas**
  Sworder, B., Kurtz, D. M., Alig, S. K., Frank, M. J., Shukla, N. D., Garofalo, A., Macaulay, C., Esfahani, M., Olsen, M., Hamilton, J., Hosoya, H., Hamilton, M. P., Spiegel, et al
  AMER SOC HEMATOLOGY.2022: 1301-1303
- **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
  AMER SOC HEMATOLOGY.2022: 6403-6404
- **Tumor Microenvironment Determinants of Immunotherapy Response Identified By Integrated Host & Viral Analysis of Post-Transplant Lymphoproliferative Disorders**
  Schroers-Martin, J., Garofalo, A., Soo, J., Boegeholz, J., Alig, S. K., Sworder, B., Liu, C., Luikart, H., Gamino, G., Morales, D., Freystaetter, K., Hamilton, J., Kurtz, et al
  AMER SOC HEMATOLOGY.2022
- **Distinct Molecular Subtypes of Classic Hodgkin Lymphoma Identified By Comprehensive Noninvasive Profiling**
  Alig, S. K., Esfahani, M., Li, M. Y., Adams, R., Garofalo, A., Jin, M. C., Olsen, M., Telenius, A., Sworder, B., Schroers-Martin, J., King, D. A., Rossi, C., Schultz, et al
  AMER SOC HEMATOLOGY.2022: 1295-1296
- **A phase 1/2 study of lenalidomide and obinutuzumab with CHOP for newly diagnosed DLBCL.** *Blood advances*
  Cherng, H. J., Alig, 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
- **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
- **The many facets of liquid biopsies in lymphoma.** *Blood*
  Kurtz, D. M.
  2022; 139 (12): 1780-1781
- **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
- **Time Since Last Anti-CD20 Treatment Is a Major Determinant of Sars-Cov-2 Vaccine Response in a Large Cohort of Patients with B-Cell Lymphoma**
  Shree, T., Shankar, V., Czerwinski, D. K., Rodriguez, G., Beygi, S., Schroers-Martin, J. G., Advani, R., Maeda, L. S., Gupta, N. K., Khodadoust, M. S., Kurtz, D. M., Corbelli, K. S., Gabriel, 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
- **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.
  AMER SOC HEMATOLOGY.2021
- **A comprehensive circulating tumor DNA assay for detection of translocation and copy number changes in pediatric sarcomas.** *Molecular cancer therapeutics*
  Shah, A. T., Azad, T. D., Breese, M. R., Chabon, J. J., Hamilton, E. G., Straessler, K., Kurtz, D. M., Leung, S. G., Spillinger, A., Liu, H., Behroozfard, I. H., Wittber, F. M., Hazard, et al
  2021
- **Phased variants improve DLBCL minimal residual disease detection at the end of therapy.**
  Kurtz, D., Chabon, J. J., Soo, J., Keh, L., Alig, S., Schultz, A., Jin, M. C., Scherer, F., Craig, A. F. M., Liu, C., Duehrsen, U., Huettmann, A., Casasnovas, et al
  LIPPINCOTT WILLIAMS & WILKINS.2021
- **Investigating gene expression profiles associated with clinical radiation resistance in KEAP1/NFE2L2 wildtype lung cancer.**
  Binkley, M. S., Jeon, Y., Nesselbush, M., Moding, E. J., Nabet, B., Almanza, D., Yoo, C., Kurtz, D. M., Owen, S., Backhus, L. M., Berry, M. F., Shrager, J. B., Ramchandran, et al
  AMER ASSOC CANCER RESEARCH.2021
- **Bringing circulating tumor DNA to the clinic in Hodgkin lymphoma.** *Haematologica*
  Kurtz, D. M.
  2021; 106 (1): 5–6
- **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
- **Liquid biopsy in lymphoma: Molecular methods and clinical applications.** *Cancer treatment reviews*
  Cirillo, M., Craig, A. F., Borchmann, S., Kurtz, D. M.
  2020; 91: 102106
- **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
  AMER ASSOC CANCER RESEARCH.2020
- **ctDNA shedding dynamics dictate early lung cancer detection potential**
  Avanzini, S., Kurtz, D. M., Chabon, J. J., Hori, S. S., Alizadeh, A. A., Diehn, M., Reiter, J. G.
  AMER ASSOC CANCER RESEARCH.2020: 25
- **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
  AMER SOC CLINICAL ONCOLOGY.2020
- **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

- **KEAP1/NFE2L2 mutations predict lung cancer radiation resistance that can be targeted by glutaminase inhibition.** *Cancer discovery*
  Binkley, M. S., Jeon, Y. J., Nesselbush, M. n., Moding, E. J., Nabet, B. Y., Almanza, D. n., Kunder, C. n., Stehr, H. n., Yoo, C. H., Rhee, S. n., Xiang, M. n., Chabon, J. J., Hamilton, et al
  2020
- **Prognostication with circulating tumor DNA: is it ready for prime time?**
  Kurtz, D. M.
  AMER SOC HEMATOLOGY.2019: 47–52
- **Changes in circulating tumor DNA levels are associated with treatment response and progression-free survival in relapse/refractory DLBCL subjects.**
  Lovejoy, A. F., Lin, H., Tabari, E., Saelee, S., Kurtz, D., Vitazka, P., Morschhauser, F., Chu, Y., Szafer-Glusman, E., Venstrom, J., Luong, K., Klass, D. M.
  AMER SOC CLINICAL ONCOLOGY.2019
- **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
- **The Development of Liquid Biopsy for Research and Clinical Practice in Lymphomas: Report of the 15-ICML Workshop on ctDNA.** *Hematological oncology*
  Rossi, D. n., Kurtz, D. M., Roschewski, M. n., Cavalli, F. n., Zucca, E. n., Wilson, W. H.
  2019
- **Interim Circulating Tumor DNA As a Prognostic Biomarker in the Setting of Interim PET-Based Adaptive Therapy for DLBCL** *American Society of Hematology*
  Macaulay, C., Alig, S., Kurtz, D. M., Jin, M. C., Opat, S., Soo, J., Sworder, B., Hertzberg, M. S., Gandhi, M. K., Diehn, M., Alizadeh, A. A.
  2019
- **Circulating DNA for Molecular Response Prediction, Characterization of Resistance Mechanisms and Quantification of CAR T-Cells during Axicabtagene Ciloleucel Therapy** *American Society of Hematology*
  Sworder, B., Kurtz, D. M., Macaulay, C., Frank, M. J., Alig, S., Garofalo, A., Sahaf, B., Esfahani, M. S., Spiegel, J. Y., Oak, J., Beygi, S., Jin, M. C., Chabon, et al
  2019
- **Towards Non-Invasive Classification of DLBCL Genetic Subtypes By Ctdna Profiling** *American Society of Hematology*
  Esfahani, M. S., Alig, S., Kurtz, D. M., Soo, J., Jin, M. C., Macaulay, C., Craig, A., Garofalo, A., Steen, C. B., Scherer, F., Sworder, B., Diehn, M., Alizadeh, et al
  2019
- **Phased Variant Enrichment for Enhanced Minimal Residual Disease Detection from Cell-Free DNA** *American Society of Hematology*
  Kurtz, D. M., Soo, J., Alig, S., Keh, L. C., Macaulay, C., Jin, M. C., Scherer, F., Hamilton, E. G., Liu, C., Chen, B., Craig, A., Diehn, M., Alizadeh, et al
  2019
- **Short Diagnosis-to-Treatment Interval Is Associated with Higher Levels of Circulating Tumor DNA in Aggressive B-Cell Non-Hodgkin Lymphoma** *American Society of Hematology*
  Alig, S., Macaulay, C., Kurtz, D. M., Ulrich, D., Andreas, H., Jin, M. C., Sworder, B., Garofalo, A., Esfahani, M. S., Soo, J., Scherer, F., Craig, A., Casasnovas, et al
  2019
- **Circulating tumor DNA analysis for detection of minimal residual disease after chemoradiotherapy for localized esophageal cancer.** *Gastroenterology*
  Azad, T. D., Chaudhuri, A. A., Fang, P. n., Qiao, Y. n., Esfahani, M. S., Chabon, J. J., Hamilton, E. G., Yang, Y. D., Lovejoy, A. n., Newman, A. M., Kurtz, D. M., Jin, M. n., Schroers-Martin, et al
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