




Maximilian Diehn, MD, PhD

Jack, Lulu, and Sam Willson Professor and Professor of Radiation Oncology
(Radiation Therapy)

Radiation Oncology - Radiation Therapy

 NIH Biosketch available Online

 Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Radiation Oncology**

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MC 6560

Stanford, CA 94305

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Michelle Ly

Email mly00@stanford.edu

Tel 650-723-7311

Bio

CLINICAL FOCUS

- Cancer > Radiation Oncology
- Cancer > Thoracic Oncology
- Radiation Oncology
- Radiation Therapy

ACADEMIC APPOINTMENTS

- Professor, Radiation Oncology - Radiation Therapy
- Member, Bio-X
- Member, Institute for Stem Cell Biology and Regenerative Medicine
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Cancer Biology Graduate Program Admissions Committee, Stanford University, (2012- present)
- Stem Cell Biology & Regenerative Medicine Graduate Program Admissions Committee, Stanford University, (2013- present)
- Medical Scientist Training Program (MSTP) Admissions Committee, Stanford University, (2011- present)

HONORS AND AWARDS

- Thomas Temple Hoopes Prize for outstanding senior thesis, Harvard University (1997)
- Medical Scientist Training Program, Stanford University (1997-2004)
- Franklin G. Ebaugh, Jr. Award for Research, Department of Medicine, Stanford University (2005)
- Annual Meeting Basic Science Travel Grant Award, American Society for Therapeutic Radiology and Oncology (ASTRO) (2006)
- ASTRO Residents in Radiation Oncology Research Seed Grant, American Society for Therapeutic Radiology and Oncology (ASTRO) (2006-2008)
- Holman Research Pathway, American Board of Radiology (ABR) (2006-2009)

- RSNA Research Resident/Fellow Grant, Radiological Society of North America (RSNA) (2007-2009)
- Roentgen Resident/Fellow Research Award, Radiological Society of North America (RSNA) (2008)
- Malcolm A. Bagshaw Award, Stanford University (2009)
- Sidney Kimmel Scholar Award, Sidney Kimmel Foundation (2010-2013)
- Doris Duke Clinical Scientist Development Award, Doris Duke Charitable Foundation (2010-2014)
- Edward Mallinckrodt, Jr. Foundation Grant, Edward Mallinckrodt, Jr. Foundation (2010-2014)
- Donald E. and Delia B. Baxter Foundation Faculty Scholar Award, Donald E. and Delia B. Baxter Foundation (2011-2012)
- Henry S. Kaplan Memorial Prize for Teaching, Stanford University (2012)
- Lung Cancer Research Program Promising Clinician Research Award, Department of Defense (2012-2014)
- CRK Faculty Scholar, CRK (2012-present)
- Walter H. Coulter Translational Research Grant, Walter H. Coulter Foundation (2013-2014)
- V Foundation Scholar Grant, V Foundation (2013-2015)
- NIH Director's New Innovator Award, National Institute of Health (NIH) (2013-2018)
- American Red Cross Blood Services Hero Award, American Red Cross (2016)
- Election to American Society for Clinical Investigation, American Society for Clinical Investigation (ASCI) (2017)
- ASCO Leadership Development Program, American Society of Clinical Oncology (ASCO) (2017-2018)
- Elected to the National Academy of Medicine, National Academy of Medicine (NAM) (2021)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Society for Therapeutic Radiology and Oncology (ASTRO) (2004 - present)
- Member, Radiological Society of North America (RSNA) (2004 - present)
- Member, International Society for Stem Cell Research (ISSCR) (2010 - present)
- Member, International Association for the Study of Lung Cancer (IASLC) (2011 - present)

PROFESSIONAL EDUCATION

- Residency: Stanford University Dept of Radiation Oncology (2009) CA
- Medical Education: Stanford University School of Medicine (2004) CA
- Internship: Stanford University Internal Medicine Residency (2005) CA
- Board Certification: Radiation Oncology, American Board of Radiology (2010)
- MD, Stanford University (2004)
- PhD, Stanford University , Biophysics (2004)
- AB, Harvard College , Biochemical Sciences (1997)

LINKS

- Diehn lab website: <http://diehnlab.stanford.edu>
- Cancer Institute website: http://cancer.stanford.edu/profiles/physician/Maximilian_Diehn/
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My laboratory focuses on two main areas: 1) cancer stem cell biology and its implications for therapy and 2) development of genomics-based biomarkers for identifying the presence of malignant cells (diagnostic), predicting outcome (prognostic), and predicting response to therapy (predictive). Areas of study include cancers of the lung, breast, and gastrointestinal system. We are also interested in developing a deeper molecular understanding of normal and cancer stem cells, including identifying pathways and genes important for survival and self-renewal. Additionally, we are developing methods for overcoming resistance mechanisms to radiotherapy and chemotherapy in cancer stem cells. We employ the tools of cancer genomics, including high throughput sequencing for detecting cancer mutations and quantifying gene expression. Clinically I specialize in the treatment of lung cancer and applications of stereotactic ablative radiotherapy and perform both prospective and retrospective clinical studies.

CLINICAL TRIALS

- Novel Serum Markers for Monitoring Response to Anti-Cancer Therapy, Recruiting
- Personalized Escalation of Consolidation Treatment Following Chemoradiotherapy and Immunotherapy in Stage III NSCLC in Stage III NSCLC, Recruiting
- Biopsy of Human Tumors for Cancer Stem Cell Characterization: a Feasibility Study, Not Recruiting
- BLP25 Liposome Vaccine and Bevacizumab After Chemotherapy and Radiation Therapy in Treating Patients With Newly Diagnosed Stage IIIA or Stage IIIB Non-Small Cell Lung Cancer That Cannot Be Removed by Surgery, Not Recruiting
- Breath Analysis for Evaluation of Radiation Exposure in Lung Cancer Patients Treated With Radiation, Not Recruiting
- Cisplatin and Etoposide Plus Radiation Followed By Nivolumab/Placebo For Locally Advanced NSCLC, Not Recruiting
- CT Perfusion Imaging in Predicting Treatment Response in Patients With Non-small Cell Lung Cancer or Lung Metastases Treated With Stereotactic Ablative Radiation Therapy, Not Recruiting
- CyberKnife Radiosurgical Treatment of Inoperable Early Stage Non-Small Cell Lung Cancer, Not Recruiting
- Erlotinib Hydrochloride or Crizotinib and Chemoradiation Therapy in Treating Patients With Stage III Non-small Cell Lung Cancer, Not Recruiting
- Imaging and Biomarkers of Hypoxia in Solid Tumors, Not Recruiting
- Individualized Lung Tumor Stereotactic Ablative Radiotherapy (iSABR), Not Recruiting
- Lapatinib Ditosylate and Radiation Therapy in Treating Patients With Locally Advanced or Locally Recurrent Breast Cancer, Not Recruiting
- Manuka Honey in Preventing Esophagitis-Related Pain in Patients Receiving Chemotherapy and Radiation Therapy For Lung Cancer, Not Recruiting
- Molecular Analysis of Thoracic Malignancies, Not Recruiting
- Molecular and Cellular Analysis of Breast Cancer, Not Recruiting
- Pulmonary Interstitial Lymphography in Early Stage Lung Cancer, Not Recruiting
- Radiation Therapy in Treating Patients With Extensive Stage Small Cell Lung Cancer, Not Recruiting
- Radiation Therapy in Treating Patients With Stage I Non-Small Cell Lung Cancer, Not Recruiting
- Radical-Dose Image Guided Radiation Therapy in Treating Patients With Metastatic Non-small Cell Lung Cancer Undergoing Immunotherapy, Not Recruiting
- Randomized Study to Compare CyberKnife to Surgical Resection In Stage I Non-small Cell Lung Cancer, Not Recruiting
- SABR-ATAC: A Trial of TGF-beta Inhibition and Stereotactic Ablative Radiotherapy for Early Stage Non-small Cell Lung Cancer, Not Recruiting
- Study of Positron Emission Tomography and Computed Tomography in Guiding Radiation Therapy in Patients With Stage III Non-small Cell Lung Cancer, Not Recruiting
- Surgery With or Without Internal Radiation Therapy Compared With Stereotactic Body Radiation Therapy in Treating Patients With High-Risk Stage I Non-Small Cell Lung Cancer, Not Recruiting
- Testing the Safety of Adding Either Monalizumab (IPH2201) or Oleclumab (MEDI9447) to Durvalumab (MEDI4736) Plus Standard Radiation Therapy for Locally Advanced Non-small Cell Lung Cancer (NSCLC), ARCHON-1 Trial, Not Recruiting

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

William Shi, Nova Xu

Doctoral Dissertation Reader (AC)

Andrea Garofalo

Postdoctoral Faculty Sponsor

Nan Chen, Jordan Cheng, Emily Hamilton, Soyeong Jun, Wilson Mai, Monica Nesselbush, Rui Wang, An Ni Zhang, Iris van 't Erve

Doctoral Dissertation Advisor (AC)

Diego Almanza, Isabel Jabara, Kevin Liu, Emily Shen, William Shi

Doctoral Dissertation Co-Advisor (AC)

Ilayda Ilertem

Doctoral (Program)

Isabel Jabara

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)
- Stem Cell Biology and Regenerative Medicine (Phd Program)

Publications

PUBLICATIONS

- **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
- **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
- **Circulating tumor DNA dynamics predict benefit from consolidation immunotherapy in locally advanced non-small-cell lung cancer** *Nature Cancer*
Moding, E. J., Liu, Y., Nabet, B. Y., Chabon, J. J., Chaudhuri, A. A., Hui, A. B., Bonilla, R. F., Ko, R. B., Yoo, C. H., He, J., Qiao, Y., Xu, T., Heymach, et al
2020; 1
- **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

- **Early detection of molecular residual disease in localized lung cancer by circulating tumor DNA profiling.** *Cancer discovery*
Chaudhuri, A. A., Chabon, J. J., Lovejoy, A. F., Newman, A. M., Stehr, H. n., Azad, T. D., Khodadoust, M. S., Esfahani, M. S., Liu, C. L., Zhou, L. n., Scherer, F. n., Kurtz, D. M., Say, et al
2017
- **Role of KEAP1/NRF2 and TP53 Mutations in Lung Squamous Cell Carcinoma Development and Radiation Resistance.** *Cancer discovery*
Jeong, Y., Hoang, N. T., Lovejoy, A., Stehr, H., Newman, A. M., Gentles, A. J., Kong, W., Truong, D., Martin, S., Chaudhuri, A., Heiser, D., Zhou, L., Say, et al
2016
- **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
- **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., Eclow, 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
- **Analysis of Circulating Tumor DNA Predicts Outcomes of Short Course Consolidation Immunotherapy in Unresectable Stage III Non-Small Cell Lung Cancer.** *Journal of thoracic oncology : official publication of the International Association for the Study of Lung Cancer*
Jun, S., Shukla, N. A., Durm, G., Hui, A. B., Cao, S., Ganti, A. K., Jabbour, S. K., Kunder, C., Alizadeh, A. A., Hanna, N. H., Diehn, M.
2024
- **Assessing the Evidence for Circulating Tumor HPV DNA in Patients With Oropharyngeal Cancer.** *JAMA oncology*
Lee, N. Y., Morris, L. G., Diehn, M.
2024
- **Combined JAK inhibition and PD-1 immunotherapy for non-small cell lung cancer patients.** *Science (New York, N.Y.)*
Mathew, D., Marmarelis, M. E., Foley, C., Bauml, J. M., Ye, D., Ghinnagow, R., Ngiow, S. F., Klapholz, M., Jun, S., Zhang, Z., Zorc, R., Davis, C. W., Diehn, et al
2024; 384 (6702): eadf1329
- **Risk of Second Tumors and T-Cell Lymphoma after CAR T-Cell Therapy.** *The New England journal of medicine*
Hamilton, M. P., Sugio, T., Noordenbos, T., Shi, S., Bulterys, P. L., Liu, C. L., Kang, X., Olsen, M. N., Good, Z., Dahiya, S., Frank, M. J., Sahaf, B., Mackall, et al
2024; 390 (22): 2047-2060
- **Quantification of cerebrospinal fluid tumor DNA in lung cancer patients with suspected leptomeningeal carcinomatosis.** *NPJ precision oncology*
Azad, T. D., Nanjo, S., Jin, M. C., Chabon, J. J., Kurtz, D. M., Chaudhuri, A. A., Connolly, I. D., Hui, A. B., Liu, C. L., Merriott, D., Ko, R., Yoo, C., Carter, et al
2024; 8 (1): 121
- **Chest wall pain after single-fraction thoracic stereotactic ablative Radiotherapy: Dosimetric analysis from the iSABR trial.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*
Lau, B., Wu, Y. F., Cui, S., Fu, J., Jackson, S., Pham, D., Dubrowski, P., Eswarappa, S., Skinner, L., Shirato, H., Taguchi, H., Gensheimer, M. F., Gee, et al
2024: 110317
- **First in human Phase I Clinical Trial of Stereotactic Irradiation to Achieve Lung Volume Reduction (SILVR) in Severe Emphysema.** *International journal of radiation oncology, biology, physics*
Kamtam, D. N., Binkley, M. S., Kapula, N., Sadeghi, C., Nesbit, S., Md, H. H., Chang, J., Maxim, P. G., Diehn, M., Loo, B. W., Shrager, J. B.
2024
- **Cancer biomarkers: Emerging trends and clinical implications for personalized treatment.** *Cell*
Passaro, A., Al Bakir, M., Hamilton, E. G., Diehn, M., André, F., Roy-Chowdhuri, S., Mountzios, G., Wistuba, I. I., Swanton, C., Peters, S.
2024; 187 (7): 1617-1635

- **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
- **Pulmonary interstitial lymphography: A prospective trial with potential impact on stereotactic ablative radiotherapy planning for early-stage lung cancer.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*
Ko, R. B., Abelson, J. A., Fleischmann, D., Louie, J. D., Hwang, G. L., Sze, D. Y., Schuler, E., Kielar, K. N., Maxim, P. G., Le, Q., Hara, W. H., Diehn, M., Kothary, et al
2023: 110079
- **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
- **Predicting Adverse Cardiac Events After Radiotherapy for Locally Advanced Non-Small Cell Lung Cancer.** *JACC. CardioOncology*
No, H. J., Guo, F. B., Park, N. J., Kastelowitz, N., Rhee, J. W., Clark, D. E., Chin, A. L., Vitzthum, L. K., Horst, K. C., Moding, E. J., Loo, B. W., Diehn, M., Binkley, et al
2023; 5 (6): 775-787
- **Patient Selection and Outcomes for Hypofractionated Accelerated Radiation and Concurrent Chemotherapy for Non-Small-Cell Lung Cancer.** *Clinical lung cancer*
Hui, C., Marquez, C., Lau, B., Das, M., Myall, N. J., Roy, M., Wakelee, H. A., Neal, J. W., Kovalchuk, N., Chin, A., Diehn, M., Loo, B. W., Xiang, et al
2023
- **Personalized Accelerated ChEroRadiation (PACER) for Lung Cancer: Protocol for a Bayesian Optimal Phase I/II Trial.** *Clinical lung cancer*
Hui, C., Brown, E., Wong, S., Das, M., Wakelee, H., Neal, J., Ramchandran, K., Myall, N. J., Pham, D., Xing, L., Yang, Y., Kovalchuk, N., Yuan, et al
2023
- **CAR19 Therapy Drives Expansion of Clonal Hematopoiesis and Associated Cytopenias**
Hamilton, M. P., Sworder, B. J., Alig, S. K., Good, Z., Boegeholz, J., Schroers-Martin, J., Tamaresis, J., Esfahani, M., Lu, Y., Olsen, M., Liu, C., Ehlinger, Z., Desai, et al
AMER SOC HEMATOLOGY.2023
- **Longitudinal Noninvasive Surveillance & Fragmentomic Characterization of Follicular Lymphoma**
Schroers-Martin, J., Mutter, J. A., Esfahani, M., Scherer, F., Soo, J., Alig, S. K., Kurtz, D. M., Sugio, T., Rossi, C., Tessoulin, B., Olsen, M., Liu, C., Diehn, et al
AMER SOC HEMATOLOGY.2023
- **Optimizing Circulating Tumor DNA Limits of Detection for DLBCL during First Line Therapy**
Goldstein, J., Kim, W., Yoon, S., Kim, S., Roschewski, M., Westin, J., Lynch, R. C., Alig, S. K., Close, S., Chabon, J. J., Rossi, D., Wilson, W. H., Diehn, et al
AMER SOC HEMATOLOGY.2023
- **Prognostic Utility of Minimal Residual Disease (MRD) after Curative Intent Induction Therapy for DLBCL: A Prospective Real-World Ctdna Study**
Sworder, B. J., Yoon, S., Kim, S., Schultz, A., Hogan, G., Close, S., Chabon, J. J., Diehn, M., Kurtz, D. M., Alizadeh, A. A., Kim, W.
AMER SOC HEMATOLOGY.2023
- **Distinct Circulating Genomic Features of Classical Hodgkin Lymphoma of Older Adults**
Rossi, C., Boegeholz, J., Alig, S. K., Garofalo, A., Esfahani, M., Schroers-Martin, J., Olsen, M., Kang, X., Kurtz, D. M., Sugio, T., Hamilton, M. P., Andre, M., Casasnovas, et al
AMER SOC HEMATOLOGY.2023

- **Inferred Gene Expression By Cell-Free DNA Profiling Allows Noninvasive Lymphoma Classification**
Mutter, J. A., Esfahani, M., Schroers-Martin, J., Alig, S. K., Hamilton, M. P., Sworder, B. J., Tessoulin, B., Boegeholz, J., Flerlage, T., Flerlage, J. E., Binkley, M. S., Sugio, T., Rossi, et al
AMER SOC HEMATOLOGY.2023
- **End-of-Treatment Response Assessment after Frontline Therapy for Aggressive B-Cell Lymphoma: Landmark Comparison of a Singular PET/CT Scan Versus Ultrasensitive Circulating Tumor DNA**
Roschewski, M., Lindenberg, L., Mena, E., Lakhota, R., Melani, C., Steinberg, S. M., Schultz, A., Hogan, G., Chabon, J. J., Close, S., Diehn, M., Sworder, B. J., Kurtz, et al
AMER SOC HEMATOLOGY.2023
- **An Integrated Multimodal Framework for Noninvasive TCL Disease Detection and Monitoring**
Sugio, T., Shukla, N., Khodadoust, M. S., Nesselbush, M., Kato, K., Alig, S. K., Boegeholz, J., Schroers-Martin, J., Esfahani, M., Mutter, J. A., Garofalo, A., Jun, S., Hamilton, et al
AMER SOC HEMATOLOGY.2023
- **Phased Variants Allow Robust Profiling of Circulating Tumor DNA in Untreated Follicular Lymphomas**
Nagy, A., Batai, B., Hogan, G., Chabon, J. J., Troke, M., Riley, L., Schultz, A., Close, S., Diehn, M., Alpar, D., Timar, B., Alizadeh, A. A., Kurtz, et al
AMER SOC HEMATOLOGY.2023
- **Genomic, Transcriptional, and Immunological Validation of Distinct Molecular Subtypes of Classic Hodgkin Lymphoma through Tissue-Based and Noninvasive Methods**
Alig, S. K., Esfahani, M., Garofalo, A., Li, M., Rossi, C., Flerlage, T., Flerlage, J. E., Adams, R., Binkley, M. S., Shukla, N., Jin, M., Olsen, M., Telenius, et al
AMER SOC HEMATOLOGY.2023
- **Investigating Dosimetry and Imaging Biomarkers for Prediction of Major Adverse Cardiac Events Following Locally Advanced Non-Small Cell Lung Cancer Radiotherapy.** *International journal of radiation oncology, biology, physics*
No, H. J., Park, N. J., Guo, F. B., Kastelowitz, N., Snyder, J. M., Rhee, J. W., Clark, D. E., Chin, A. L., Vitzthum, L., Horst, K. C., Moding, E. J., Loo, B. W., Diehn, et al
2023; 117 (2S): S170
- **Prospective Trial of Using Imaging to Predict Pathologic Response and Clinical Outcomes in Locally Advanced Esophageal Cancer.** *International journal of radiation oncology, biology, physics*
Liu, Y., Hobbs, B. P., Hofstetter, W., Murphy, M. B., Gandhi, S., Nguyen, Q. N., Chang, J. Y., Liao, Z., Diehn, M., Ma, J., Lin, S. H.
2023; 117 (2S): S12-S13
- **Concurrent Radiation and Immunotherapy Augments Local Immunity and Improves Survival in Aneuploid NSCLC.** *International journal of radiation oncology, biology, physics*
Spurr, L. F., Martinez, C., Kang, W., Chen, M., Zha, Y., Hseu, R., Gutiontov, S., Turchan, W. T., Lynch, C., Pointer, K. B., Vokes, E. E., Bestvina, C. M., Patel, et al
2023; 117 (2S): S23
- **Hyperfractionated Reirradiation for Locally Recurrent Thoracic Tumors.** *International journal of radiation oncology, biology, physics*
Butler, S. S., Raclin, T., Lau, B., Raja, N., Chin, A. L., Skinner, L., Diehn, M., Loo, B. W., Vitzthum, L.
2023; 117 (2S): e9
- **Predicting Local Control with Dosimetric Parameters in Patients Receiving Individualized Stereotactic Ablative Radiotherapy for Lung Tumors.** *International journal of radiation oncology, biology, physics*
Wu, Y. F., Lau, B., Fu, J., Cui, S., Pham, D., Dubrowski, P., Eswarappa, S., Zgrabik, J., Candow, L., Skinner, L., Shirato, H., Taguchi, H., Gensheimer, et al
2023; 117 (2S): e76
- **Improved early outcome prediction by MRI-based 3D tumor volume assessment in patients with CNS lymphomas.** *Neuro-oncology*
Lauer, E. M., Riegler, E., Mutter, J. A., Alig, S. K., Bleul, S., Kuehn, J., Ranganathan, L., Klingler, C., Demerath, T., Wurtemberger, U., Rau, A., WeiSS, J., Eisenblaetter, et al
2023
- **Individualized Stereotactic Ablative Radiotherapy for Lung Tumors: The iSABR Phase 2 Nonrandomized Controlled Trial.** *JAMA oncology*
Gensheimer, M. F., Gee, H., Shirato, H., Taguchi, H., Snyder, J. M., Chin, A. L., Vitzthum, L. K., Maxim, P. G., Wakelee, H. A., Neal, J., Das, M., Chang, D. T., Kidd, et al

2023

- **Early-Stage Lung Cancer: Using Circulating Tumor DNA to Get Personal.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
Bestvina, C. M., Garassino, M. C., Neal, J. W., Wakelee, H. A., Diehn, M., Vokes, E. E.
2023: JCO2300258
- **Association between locoregional failure and NFE2L2/KEAP1/CUL3 pathway mutations in NRG/RTOG 9512: A randomized trial of hyperfractionation vs. conventional fractionation in T2N0 glottic squamous cell carcinoma (SCC).**
Guan, L., Torres-Saavedra, P. A., Zhao, X., Major, M. B., Holmes, B. J., Nguyen, N., Kumaravelu, P., Hodge, T., Diehn, M., Zevallos, J., Emami, B., Sagar, S. M., Morrison, et al
LIPPINCOTT WILLIAMS & WILKINS.2023
- **17th International Conference on Malignant Lymphoma, Palazzo dei Congressi, Lugano, Switzerland, 13 - 17 June, 2023.** *Hematological oncology*
Rossi, C., Boegeholz, J. L., Alig, S. K., Garofolo, A., Esfahani, M. S., Schroers-Martin, J., Olsen, M., Kang, X., Kurtz, D. M., Sugio, T., Hamilton, M. P., André, M., Casasnovas, et al
2023; 41 Suppl 2: 321-322
- **17th International Conference on Malignant Lymphoma, Palazzo dei Congressi, Lugano, Switzerland, 13 - 17 June, 2023.** *Hematological oncology*
Alig, S. K., Esfahani, M. S., Garofalo, A., Li, M. Y., Rossi, C., Adams, R., Binkley, M. S., Jin, M. C., Olsen, M., Telenius, A., Mutter, J., Sworder, B. J., Schroers-Martin, et al
2023; 41 Suppl 2: 96-98
- **Unilateral diaphragmatic paralysis after stereotactic ablative radiotherapy to a lung tumor abutting the course of the phrenic nerve.** *Practical radiation oncology*
Eke, I., Guo, H. H., Loo, J. B., Sung, A. W., Diehn, M., Vitzthum, L., Chin, A. L., Gensheimer, M. F.
2023
- **Pulmonary Hemorrhage in Patients Treated with Thoracic Stereotactic Ablative Radiotherapy and Anti-Angiogenic Agents.** *Journal of thoracic oncology : official publication of the International Association for the Study of Lung Cancer*
Lau, B., Wu, Y. F., No, H. J., Ko, R. B., Devine, M., Das, M. S., Neal, J. W., Wakelee, H. A., Ramchandran, K., Gensheimer, M. F., Diehn, M., Chin, A. L., Loo, et al
2023
- **Real-world risk of brain metastases in stage III non-small cell lung cancer in the era of PET and MRI staging.** *Frontiers in oncology*
Alhusaini, S., Lanman, T. A., Ko, R. B., Therkelsen, K. E., Eyben, R. V., Diehn, M., Soltys, S. G., Pollom, E. L., Chin, A., Vitzthum, L., Wakelee, H. A., Padda, S. K., Ramchandran, et al
2023; 13: 1139940
- **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
- **NFE2L2 mutations enhance radioresistance in head and neck cancer by modulating intratumoral myeloid cells.** *Cancer research*
Guan, L., Nambiar, D. K., Cao, H., Viswanathan, V., Kwok, S., Hui, A. B., Hou, Y., Hildebrand, R., von Eyben, R., Holmes, B. J., Zhao, J., Kong, C. S., Wamsley, et al
2023
- **STK11 Inactivation Predicts Rapid Recurrence in Inoperable Early-Stage Non-Small-Cell Lung Cancer.** *JCO precision oncology*
Katipally, R. R., Spurr, L. F., Gutiontov, S. I., Turchan, W. T., Connell, P., Juloori, A., Malik, R., Binkley, M. S., Jiang, A. L., Rouhani, S. J., Chervin, C. S., Wanjari, P., Segal, et al
2023; 7: e2200273
- **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

- **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
- **Highly aneuploid non-small cell lung cancer shows enhanced responsiveness to concurrent radiation and immune checkpoint blockade.** *Nature cancer*
Spurr, L. F., Martinez, C. A., Kang, W., Chen, M., Zha, Y., Hseu, R., Gutiontov, S. I., Turchan, W. T., Lynch, C. M., Pointer, K. B., Chang, P., Murgu, S., Husain, et al
2022
- **Radiotherapy in combination with CD47 blockade elicits a macrophage-mediated abscopal effect.** *Nature cancer*
Nishiga, Y., Drinas, A. P., Baron, M., Bhattacharya, D., Barkal, A. A., Ahrari, Y., Mancusi, R., Ross, J. B., Takahashi, N., Thomas, A., Diehn, M., Weissman, I. L., Graves, et al
2022
- **Induction EGFR tyrosine kinase inhibitors prior to definitive chemoradiotherapy in unresectable stage III EGFR-mutated non-small cell lung cancer.** *Cancer treatment and research communications*
Aredo, J. V., Wakelee, H. A., Hui, A. B., Padda, S. K., Joshi, N. D., Guo, H. H., Chaudhuri, A., Diehn, M., Loo, B. W., Neal, J. W.
2022; 33: 100659
- **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
- **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
- **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. 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
- **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
- **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
- **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
- **A Review of Concurrent Chemo/Radiation, Immunotherapy, Radiation Planning, and Biomarkers for Locally Advanced Non-small Cell Lung Cancer and Their Role in the Development of ECOG-ACRIN EA5181.** *Clinical lung cancer*
Varlotto, J. M., Sun, Z., Ky, B., Upshaw, J., Fitzgerald, T. J., Diehn, M., Lovly, C., Belani, C., Oettel, K., Masters, G., Harkenrider, M., Ross, H., Ramalingam, et al
2022; 23 (7): 547-560
- **Characterizing Metastatic Non-Small Cell Lung Cancer Presenting to an Academic Medical Center in an Era of Changing Treatment Paradigms**
Raja, N., No, H. J., Von Eyben, R., Das, M., Roy, M., Myall, N., Chin, A. L., Diehn, M., Loo, B. W., Chang, D. T., Pollom, E., Vitzthum, L.
ELSEVIER SCIENCE INC.2022: E407
- **Investigating the Impact of Coronary Artery Dosimetry on Major Adverse Cardiac Events after Thoracic Radiation Therapy**
Guo, F. B., No, H. J., Rhee, J. W., Chin, A. L., Vitzthum, L., Horst, K. C., Moding, E. J., Loo, B. W., Diehn, M., Binkley, M. S.
ELSEVIER SCIENCE INC.2022: E418
- **Early Outcomes and Toxicity with Concurrent Chemotherapy and Hypofractionated Radiation Therapy in Patients with Non-Small Cell Lung Cancer**
Hui, C., Marquez, C., Lau, B., Von Eyben, R., Das, M., Myall, N., Roy, M., Chin, A., Diehn, M., Loo, B., Vitzthum, L.
LIPPINCOTT WILLIAMS & WILKINS.2022: S44
- **Chest Wall Toxicity after Individualized Stereotactic Ablative Radiotherapy for Lung Tumors**
Lau, B., Wu, Y. F., Fu, J., Cui, S., Pham, D., Gee, H., Skinner, L., Shirato, H., Taguchi, H., Chin, A., Gensheimer, M., Diehn, M., Loo, et al
ELSEVIER SCIENCE INC.2022: S36-S37
- **Dosimetric Predictors of Local Control after Stereotactic Ablative Radiotherapy (SABR) for Lung Tumors: A Secondary Analysis of a Phase II Prospective Trial of Individualized SABR (ISABR)**
Wu, Y., Lau, B., Fu, J., Skinner, L., Gensheimer, M., Gee, H., Diehn, M., Loo, B., Chin, A., Vitzthum, L.
LIPPINCOTT WILLIAMS & WILKINS.2022: S16
- **Isolated Nodal Recurrence After Definitive Stereotactic Ablative Radiotherapy for Non-Small Cell Lung Cancer.** *Practical radiation oncology*
Devine, M., Merriott, D. J., No, H. J., Lau, B., Say, C., Yoo, C., Yi, E., Ko, R. B., Neal, J. W., Wakelee, H. A., Das, M., Loo, B. W., Diehn, et al
2022
- **Genomic Profiling of Bronchoalveolar Lavage Fluid in Lung Cancer.** *Cancer research*
Nair, V. S., Hui, A. B., Chabon, J. J., Shahrokh 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
- **ESMO recommendations on the use of circulating tumour DNA assays for patients with cancer: a report from the ESMO Precision Medicine Working Group.** *Annals of oncology : official journal of the European Society for Medical Oncology*
Pascual, J., Attard, G., Bidard, F., Curigliano, G., De Mattos-Arruda, L., Diehn, M., Italiano, A., Lindberg, J., Merker, J. D., Montagut, C., Normanno, N., Pantel, K., Pentheroudakis, et al
2022
- **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
- **Characterization of Metastatic Non-Small Cell Lung Cancer and Oligometastatic Incidence in an Era of Changing Treatment Paradigms.** *International journal of radiation oncology, biology, physics*

- No, H. J., Raja, N., Von Eyben, R., Das, M., Roy, M., Myall, N., Neal, J., Wakelee, H., Chin, A., Diehn, M., Loo, B. W., Chang, D. T., Pollom, et al
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)
 - **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
 - **Detection of Recurrence After Thoracic Stereotactic Ablative Radiotherapy Using FDG-PET-CT.** *Clinical lung cancer*
Sodji, Q. H., Harris, J. P., Quon, A., Modlin, L. A., Lau, B., Jiang, A., Trakul, N., Maxim, P. G., Diehn, M., Loo, B. W., Hiniker, S. M.
2022
 - **Predictive Radiation Oncology - A New NCI-DOE Scientific Space and Community.** *Radiation research*
Buchsbaum, J. C., Jaffray, D. A., Ba, D., Borkon, L. L., Chalk, C., Chung, C., Coleman, M. A., Coleman, C. N., Diehn, M., Droegemeier, K. K., Enderling, H., Espey, M. G., Greenspan, et al
1800
 - **Acute and Late Esophageal Toxicity Following Stereotactic Ablative Radiotherapy to Thoracic Tumors near or Abutting the Esophagus.** *International journal of radiation oncology, biology, physics*
Sodji, Q. H., Ko, R., von Eyben, R., Owen, S. G., Capaldi, D. P., Bush, K., Binkley, M. S., Alrowais, F., Pickthorn, B., Maxim, P. G., Gensheimer, M. F., Diehn, M., Loo, et al
1800
 - **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
 - **Impact of Facility Treatment Volume on Stereotactic Ablative Radiotherapy (SABR) Outcomes in Early-Stage Non-Small Cell Lung Cancer (NSCLC).** *International journal of radiation oncology, biology, physics*
Marar, M., Bryant, A. K., Nalawade, V., Das, M., Jr, B. W., Diehn, M., Chin, A. L., Murphy, J. D., Vitzthum, L.
2021; 111 (3S): e447
 - **Impact of Facility Treatment Volume on Stereotactic Ablative Radiotherapy (SABR) Outcomes in Early-Stage Non-Small Cell Lung Cancer (NSCLC)**
Marar, M., Bryant, A. K., Nalawade, V., Das, M., Loo, B. W., Diehn, M., Chin, A. L., Murphy, J. D., Vitzthum, L.
ELSEVIER SCIENCE INC.2021: E447
 - **Deep Learning Based Identification and Segmentation of Lung Tumors on Computed Tomography Images**
Kashyap, M., Panjwani, N., Hasan, M. A., Huang, C., Bush, K., Dong, P., Zaky, S. S., Chin, A. L., Vitzthum, L., Loo, B. W., Diehn, M., Xing, L., Gensheimer, et al
ELSEVIER SCIENCE INC.2021: E92-E93
 - **A Phase II Trial of Individualized Stereotactic Ablative Radiotherapy for Lung Tumors (iSABR)**
Gensheimer, M. F., Gee, H. E., Von Eyben, R., Shirato, H., Taguchi, H., Wong, S., Brown, E., Nguyen, N., Liang, R., Maxim, P. G., Wakelee, H. A., Neal, J. W., Das, et al
ELSEVIER SCIENCE INC.2021: S89-S90
 - **Patterns of Care in Patients With Isolated Nodal Recurrence After Definitive Stereotactic Ablative Radiotherapy for Non-Small Cell Lung Cancer**
Devine, M., Merriott, D. J., Say, C., Yoo, C., Yi, E., Lau, B., Ko, R. B., Shaheen, S., Neal, J. W., Wakelee, H. A., Das, M., Loo, B. W., Diehn, et al
ELSEVIER SCIENCE INC.2021: E435
 - **Pulmonary Hemorrhage in Patients Treated With Thoracic Stereotactic Ablative Radiotherapy and Anti-Angiogenic Agents**
Lau, B., No, H. J., Wu, Y. F., Ko, R. B., Devine, M., Das, M., Neal, J. W., Ramchandran, K. J., Wakelee, H. A., Shaheen, S., Diehn, M., Chin, A. L., Loo, et al

ELSEVIER SCIENCE INC.2021: E423

- **A Phase II Trial of Individualized Stereotactic Ablative Radiotherapy for Lung Tumors (iSABR).** *International journal of radiation oncology, biology, physics*
Gensheimer, M. F., Gee, H. E., Von Eyben, R., Shirato, H., Taguchi, H., Wong, S., Brown, E., Nguyen, N., Liang, R., Maxim, P. G., Wakelee, H. A., Neal, J. W., Das, et al
2021; 111 (3S): S89-S90
- **Patterns of Care in Patients With Isolated Nodal Recurrence After Definitive Stereotactic Ablative Radiotherapy for Non-Small Cell Lung Cancer.** *International journal of radiation oncology, biology, physics*
Devine, M., Merriott, D. J., Say, C., Yoo, C., Yi, E., Lau, B., Ko, R. B., Shaheen, S., Neal, J. W., Wakelee, H. A., Das, M., Loo, B. W., Diehn, et al
2021; 111 (3S): e435
- **Deep Learning Based Identification and Segmentation of Lung Tumors on Computed Tomography Images.** *International journal of radiation oncology, biology, physics*
Kashyap, M., Panjwani, N., Hasan, M. A., Huang, C., Bush, K., Dong, P., Zaky, S. S., Chin, A. L., Vitzthum, L., Loo, B. W., Diehn, M., Xing, L., Gensheimer, et al
2021; 111 (3S): e92-e93
- **Pulmonary Hemorrhage in Patients Treated with Thoracic Stereotactic Ablative Radiotherapy and Anti-Angiogenic Agents**
Lau, B., No, H., (Fred) Wu, Y., Devine, M., Ko, R., Loo, B., Diehn, M., Chin, A., Vitzthum, L.
LIPPINCOTT WILLIAMS & WILKINS.2021: S105
- **Treatment Patterns for Isolated Nodal Recurrences in Non-Small Cell Lung Cancer After Definitive Stereotactic Ablative Radiotherapy**
No, H., Devine, M., Lau, B., Loo, B., Diehn, M., Chin, A., Vitzthum, L.
LIPPINCOTT WILLIAMS & WILKINS.2021: S109
- **Local Recurrence Outcomes of Colorectal Cancer Oligometastases Treated With Stereotactic Ablative Radiotherapy.** *American journal of clinical oncology*
Benson, K. R., Sandhu, N., Zhang, C., Ko, R., Toesca, D. A., Lee, P. E., Von Eyben, R., Diehn, M., Gensheimer, M., Maxim, P. G., Bush, K., Loo, B. W., Soltys, et al
2021
- **Radiological tumor classification across imaging modality and histology.** *Nature machine intelligence*
Wu, J., Li, C., Gensheimer, M., Padda, S., Kato, F., Shirato, H., Wei, Y., Schönlieb, C. B., Price, S. J., Jaffray, D., Heymach, J., Neal, J. W., Loo, et al
2021; 3: 787-798
- **Circulating tumor DNA profiling for noninvasive detection, classification, and risk stratification of patients with CNS lymphomas**
Mutter, J. A., Alig, S., Lauer, E. M., Esfahani, M. S., Mitschke, J., Kurtz, D. M., Olsen, M., Liu, C. L., Jin, M. C., Bleul, S., Macaulay, C. W., Neidert, N. N., Heiland, et al
KARGER.2021: 90
- **Radiological tumour classification across imaging modality and histology** *NATURE MACHINE INTELLIGENCE*
Wu, J., Li, C., Gensheimer, M., Padda, S., Kato, F., Shirato, H., Wei, Y., Schönlieb, C., Price, S., Jaffray, D., Heymach, J., Neal, J. W., Loo, et al
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
- **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
- **Liquid Biopsy for Advanced Non-Small Cell Lung Cancer: A Consensus Statement from The International Association for the Study of Lung Cancer (IASLC).** *Journal of thoracic oncology : official publication of the International Association for the Study of Lung Cancer*
Rolfo, C., Mack, P., Scagliotti, G. V., Aggarwal, C., Arcila, M. E., Barlesi, F., Bivona, T., Diehn, M., Dive, C., Dziadziuszko, R., Leigh, N., Malapelle, U., Mok, et al
2021

- **Mutational landscape of the bronchial epithelium of individuals at high risk for lung cancer.**
Rahman, S., Zhao, S., Chu, S., Zou, Y., Hui, A. B., Stricker, T. P., Heidi, C., Diehn, M., Massion, P. P.
AMER ASSOC CANCER RESEARCH.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. M., Liu, C., Duehrsen, U., Huettmann, A., Casasnovas, et al
LIPPINCOTT WILLIAMS & WILKINS.2021
- **Noninvasive identification of emergent mutations following cytotoxic therapy for lung cancer.**
Moding, E., Hui, A. B., Murciano-Goroff, Y. R., Nabet, B., Schultz, A., Qiao, Y., Li, B. T., Lin, S. H., Alizadeh, A. A., Diehn, M.
LIPPINCOTT WILLIAMS & WILKINS.2021
- **Relationship between KEAP1/NFE2L2 pathway activation and radiation resistance in oral cavity cancer.**
Guan, L., Cao, H., Hui, A., Kwok, S., Viswanathan, V., Nambiar, D., Eyben, R. V., Holmes, B., Kong, C., Diehn, M., Quynh-Thu Le
AMER ASSOC CANCER RESEARCH.2021
- **Circulating tumor DNA kinetics to identify genomic predictors of rapid response to chemoradiation in non-small cell lung cancer.**
Moding, E. J., Liu, Y., Hui, A. B., He, J., Qiao, Y., Xu, T., Yao, L., Gandhi, S., Liao, Z., Das, M., Ramchandran, K. J., Padda, S. K., Neal, et al
AMER ASSOC CANCER RESEARCH.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
- **Genetic determinants of EGFR-Driven Lung Cancer Growth and Therapeutic Response In Vivo.** *Cancer discovery*
Foggetti, G., Li, C., Cai, H., Hellyer, J. A., Lin, W., Ayeni, D., Hastings, K., Choi, J., Wurtz, A., Andrejka, L., Maghini, D. G., Rashleigh, N., Levy, et al
2021
- **A review of immunotherapy for stage 3 and metastatic NSCLC & the rationale for the ECOG-ACRIN EA5181 study.** *The oncologist*
Varlotto, J. M., Sun, Z., Ky, B., Upshaw, J., Katz, S. I., Fitzgerald, T. J., Wakelee, H., Diehn, M., Mankoff, D. A., Lovly, C., Belani, C., Oettel, K., Masters, et al
2021
- **Global analysis of shared T cell specificities in human non-small cell lung cancer enables HLA inference and antigen discovery.** *Immunity*
Chiou, S. H., Tseng, D. n., Reuben, A. n., Mallajosyula, V. n., Molina, I. S., Conley, S. n., Wilhelmy, J. n., McSween, A. M., Yang, X. n., Nishimiya, D. n., Sinha, R. n., Nabet, B. Y., Wang, et al
2021; 54 (3): 586–602.e8
- **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
- **Detecting Liquid Remnants of Solid Tumors: Circulating Tumor DNA Minimal Residual Disease.** *Cancer discovery*
Moding, E. J., Nabet, B. Y., Alizadeh, A. A., Diehn, M.
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., Shahrokht Esfahani, M. n., Nabet, B. Y., Soo, J. n., Scherer, et al
2021: JCO2002573
- **Durvalumab for Patients with Stage III EGFR-Mutated Non-Small Cell Lung Cancer Receiving Definitive Chemoradiotherapy**

- Aredo, J. V., Hellyer, J. A., Neal, J. W., Padda, S. K., McCoach, C. E., Riess, J. W., Cabebe, E. C., Loo, B. W., Diehn, M., Wakelee, H. A.
ELSEVIER SCIENCE INC.2021: S15
- **Durvalumab for Stage III EGFR-Mutated Non-Small Cell Lung Cancer After Definitive Chemoradiotherapy.** *Journal of thoracic oncology : official publication of the International Association for the Study of Lung Cancer*
Aredo, J. V., Mambetsariev, I. n., Hellyer, J. A., Amini, A. n., Neal, J. W., Padda, S. K., McCoach, C. E., Riess, J. W., Cabebe, E. C., Naidoo, J. n., Abuall, T. n., Salgia, R. n., Loo, 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)
 - **Detection and Diagnostic Utilization of Cellular and Cell-Free Tumor DNA.** *Annual review of pathology*
Dudley, J. C., Diehn, M.
2020
 - **Cardiac Toxicities and Outcomes Following Stereotactic Ablative Radiation to Thoracic Cancers**
Obeid, J. P., Natarajan, J. M., Ko, R., Jani, K., Sodji, Q., Merriott, D. J., Pickthorn, W., Bush, K., Maxim, P. G., Diehn, M., Loo, B. W.
ELSEVIER SCIENCE INC.2020: E158–E159
 - **Pre-Treatment Lung FDG-PET Uptake is Correlated with Radiologic Lung Fibrosis after Stereotactic Ablative Radiotherapy (SABR)**
Ross, J. B., Merriott, D. J., Alhumaid, S., Schueler, E., Ko, R., Bush, K., Maxim, P. G., Gensheimer, M. F., Loo, B. W., Diehn, M.
ELSEVIER SCIENCE INC.2020: E155
 - **Parametric Response Mapping as an Imaging Biomarker for Regional Ventilation in Stereotactic Ablative Radiotherapy**
Capaldi, D. P., Binkley, M. S., Ko, R., Xing, L., Maxim, P. G., Diehn, M., Loo, B. W.
ELSEVIER SCIENCE INC.2020: E359
 - **A noninvasive approach for early prediction of therapeutic benefit from immune checkpoint inhibition for lung cancer**
Nabet, B. Y., Esfahani, M. S., Hamilton, E. G., Chabon, J. J., Moding, E. J., Rizvi, H., Steen, C. B., Chaudhuri, A. A., Liu, C., Hui, A. B., Stehr, H., Goljenola, L., Jin, et al
AMER ASSOC CANCER RESEARCH.2020
 - **Atlas of clinically-distinct cell states and cellular ecosystems across human solid tumors**
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.
AMER ASSOC CANCER RESEARCH.2020
 - **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 applications and integration in colorectal cancer: an NCI Colon and Rectal-Anal Task Forces whitepaper.** *Nature reviews. Clinical oncology*
Dasari, A., Morris, V. K., Allegra, C. J., Atreya, C., Benson, A. B., Boland, P., Chung, K., Copur, M. S., Corcoran, R. B., Deming, D. A., Dwyer, A., Diehn, M., Eng, et al
2020
 - **Analytical validation of iSort digital cytometry for leukocyte enumeration in clinical tumor specimens.**
Newman, A. M., Nakao, A., Li, K., Wilson, D., Liu, C., Diehn, M., Alizadeh, A. A.
LIPPINCOTT WILLIAMS & WILKINS.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. L., Hui, A. B., Jin, et al
2020; 580 (7802): 245-251
 - **A phase II randomized trial of Observation versus stereotactic ablative Radiation for OLigometastatic prostate CancEr (ORIOLE)**

Tran, P. T., Phillips, R., Shi, W., Lim, S., Antonarakis, E. S., Rowe, S. P., Ross, A., Gorin, M. A., Deville, C., Greco, S. C., Paller, C., DeWeese, T. L., Song, et al
AMER SOC CLINICAL ONCOLOGY.2020

- **Circulating Tumor DNA Dynamics Predict Benefit from Consolidation Immunotherapy in Locally Advanced Non-Small Cell Lung Cancer.** *Nature cancer*
Moding, E. J., Liu, Y., Nabet, B. Y., Chabon, J. J., Chaudhuri, A. A., Hui, A. B., Bonilla, R. F., Ko, R. B., Yoo, C. H., Gojenola, L., Jones, C. D., He, J., Qiao, et al
2020; 1 (2): 176-183
- **American Society of Clinical Oncology Road to Recovery Report: Learning From the COVID-19 Experience to Improve Clinical Research and Cancer Care.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
Pennell, N. A., Dillmon, M. n., Levit, L. A., Moushey, E. A., Alva, A. S., Blau, S. n., Cannon, T. L., Dickson, N. R., Diehn, M. n., Gonen, M. n., Gonzalez, M. M., Hensold, J. O., Hinyard, et al
2020: JCO2002953
- **Circulating tumor DNA dynamics predict benefit from consolidation immunotherapy in locally advanced non-small-cell lung cancer** *NATURE CANCER*
Moding, E. J., Liu, Y., Nabet, B. Y., Chabon, J. J., Chaudhuri, A. A., Hui, A. B., Bonilla, R. F., Ko, R. B., Gojenola, L., Jones, C. D., He, J., Qiao, Y., Heymach, et al
2020; 1: 176–183
- **Molecular and immunological signatures are related to clinical benefit from treatment with Vocimagene amiretrorepvec (Toca 511) and 5-fluorocytosine (Toca FC) in patients with glioma.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Accomando, W. P., Rao, A. R., Hogan, D. J., Newman, A. M., Nakao, A. n., Alizadeh, A. A., Diehn, M. n., Diago, O. R., Gammon, D. K., Haghighi, A. n., Gruber, H. E., Jolly, D. J., Ostertag, et al
2020
- **Predicting per-lesion local recurrence in locally advanced non-small cell lung cancer following definitive radiation therapy using pre- and mid-treatment metabolic tumor volume.** *Radiation oncology (London, England)*
Binkley, M. S., Koenig, J. L., Kashyap, M. n., Xiang, M. n., Liu, Y. n., Sodji, Q. n., Maxim, P. G., Diehn, M. n., Loo, B. W., Gensheimer, M. F.
2020; 15 (1): 114
- **Lack of supporting data make the risks of a clinical trial of radiation therapy as a treatment for COVID-19 pneumonia unacceptable.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*
Kirsch, D. G., Diehn, M. n., Cucinoata, F. A., Weichselbaum, R. n.
2020
- **Circulating tumor DNA analysis to assess risk of progression after long-term response to PD-(L)1 blockade in NSCLC.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Hellmann, M. D., Nabet, B. Y., Rizvi, H. n., Chaudhuri, A. A., Wells, D. K., Dunphy, M. P., Chabon, J. J., Liu, C. L., Hui, A. B., Arbour, K. C., Luo, J. n., Preeshagul, I. R., Moding, et al
2020
- **Single cell analysis reveals distinct immune landscapes in transplant and primary sarcomas that determine response or resistance to immunotherapy.** *Nature communications*
Wisdom, A. J., Mowery, Y. M., Hong, C. S., Himes, J. E., Nabet, B. Y., Qin, X. n., Zhang, D. n., Chen, L. n., Fradin, H. n., Patel, R. n., Bassil, A. M., Muise, E. S., King, et al
2020; 11 (1): 6410
- **Response Letter: Radiation therapy for COVID-19 pneumopathy.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*
Kirsch, D. G., Diehn, M. n., Cucinotta, F. A., Weichselbaum, R. n.
2020
- **Early response evaluation using primary tumor and nodal imaging features to predict progression-free survival of locally advanced non-small cell lung cancer.** *Theranostics*
Zhang, N., Liang, R., Gensheimer, M. F., Guo, M., Zhu, H., Yu, J., Diehn, M., Loo, B. W., Li, R., Wu, J.
2020; 10 (25): 11707–18
- **A human lung tumor microenvironment interactome identifies clinically relevant cell-type cross-talk.** *Genome biology*

- Gentles, A. J., Hui, A. B., Feng, W. n., Azizi, A. n., Nair, R. V., Bouchard, G. n., Knowles, D. A., Yu, A. n., Jeong, Y. n., Bejood, A. n., Forgó, E. n., Varma, S. n., Xu, et al
2020; 21 (1): 107
- **Outcomes of Observation vs Stereotactic Ablative Radiation for Oligometastatic Prostate Cancer: The ORIOLE Phase 2 Randomized Clinical Trial.** *JAMA oncology*
Phillips, R. n., Shi, W. Y., Deek, M. n., Radwan, N. n., Lim, S. J., Antonarakis, E. S., Rowe, S. P., Ross, A. E., Gorin, M. A., Deville, C. n., Greco, S. C., Wang, H. n., Denmeade, et al
2020
 - **Targeted Treatment of Multiple Primary Lung Cancers Harboring Distinct EGFR or RET Alterations: A Case Report.** *Clinical lung cancer*
Aredo, J. V., Diehn, M. n., Berry, G. J., Wakelee, H. A.
2020
 - **Clinical implications of KEAP1-NFE2L2 mutations in non-small cell lung cancer.** *Journal of thoracic oncology : official publication of the International Association for the Study of Lung Cancer*
Hellyer, J. A., Padda, S. K., Diehn, M. n., Wakelee, H. A.
2020
 - **Deep segmentation networks predict survival of non-small cell lung cancer.** *Scientific reports*
Baek, S., He, Y., Allen, B. G., Buatti, J. M., Smith, B. J., Tong, L., Sun, Z., Wu, J., Diehn, M., Loo, B. W., Plichta, K. A., Seyedin, S. N., Gannon, et al
2019; 9 (1): 17286
 - **An Atlas of Clinically-Distinct Tumor Cellular Ecosystems in Diffuse Large B Cell Lymphoma**
Steen, C. B., Luca, B. A., Esfahani, M., Nabet, B. Y., Sworder, B., Farshidfar, F., Shamardani, K., Kurtz, D. M., Liu, C., Advani, R. H., Natkunam, Y., Myklebust, J., Diehn, et al
AMER SOC HEMATOLOGY.2019
 - **Deep Sequencing of Viral Cell-Free DNA for Noninvasive Detection of Immunosuppression-Related Lymphoid Malignancies**
Garofalo, A., Schroers-Martin, J. G., Soo, J., Kurtz, D. M., Sworder, B., Liu, C., Pinsky, B. A., Luikart, H., Advani, R. H., Natkunam, Y., Khush, K., Diehn, M., Alizadeh, et al
AMER SOC HEMATOLOGY.2019
 - **Atlas of clinically-distinct cell states and cellular ecosystems across human solid tumors**
Luca, B., Alizadeh, A., Diehn, M., Newman, A., Gentles, A., Steen, C.
BMC.2019
 - **Primary Outcomes of a Phase II Randomized Trial of Observation Versus Stereotactic Ablative Radiation for OLigometastatic Prostate CancEr (ORIOLE)**
Phillips, R., Lim, S. J., Shi, W. Y., Antonarakis, E. S., Rowe, S., Gorin, M., Deville, C., Greco, S. C., Denmeade, S., Paller, C., DeWeese, T. L., Song, D., Wang, et al
ELSEVIER SCIENCE INC.2019: 681
 - **Broad Genomic Profiling of Bronchoalveolar Lavage Fluid in Lung Cancer**
Nair, V., Hui, A., Chabon, J., Esfahani, M., Stehr, H., Nabet, B., Benson, J., Chaudhuri, A., Zhou, L., Ayers, K., Bedi, H., Ramsey, M., Van Wert, et al
ELSEVIER SCIENCE INC.2019: S747–S748
 - **Circulating Tumor DNA Changes During Chemoradiation for Lung Cancer Predict Patient Outcomes**
Moding, E. J., Nabet, B. Y., Liu, Y., Chabon, J. J., Chaudhuri, A. A., Hui, A. B., Binkley, M. S., He, J., Qiao, Y., Xu, T., Yao, L., Gandhi, S., Liao, et al
ELSEVIER SCIENCE INC.2019: S113
 - **Outcomes of Oligometastatic Colorectal Cancer treated with Stereotactic Ablative Radiotherapy**
Benson, K., Sandhu, N., Zhang, C., Ko, R. B., Toesca, D. S., Von Eyben, R., Diehn, M., Bush, K., Maxim, P. G., Gensheimer, M. F., Soltys, S. G., Loo, B. W., Pollom, et al
ELSEVIER SCIENCE INC.2019: E161–E162
 - **Symptomatic Cardiac Events in Patients with Lung Tumors Near The Heart Treated with Stereotactic Ablative Radiotherapy (SABR): A Single Institution Experience**
Ko, R. B., Jani, K., Sodji, Q., Merriott, D. J., Pickthorn, W., Bush, K., Maxim, P. G., Diehn, M., Loo, B. W.
ELSEVIER SCIENCE INC.2019: S148

- **Influence of Dose and Fractionation on Radiologic Lung Fibrosis after Stereotactic Ablative Radiotherapy (SABR)**
Ross, J. B., Ross, J. B., Merriott, D. J., Alhumaid, S., Schueler, E., Ko, R. B., Bush, K., Maxim, P. G., Gensheimer, M. F., Loo, B. W., Diehn, M.
ELSEVIER SCIENCE INC.2019: E527–E528
- **Investigating and Validating Metabolic Tumor Volume As a Prognostic Factor for Local Recurrence in Early Stage Lung Cancer**
Binkley, M. S., Stehr, H., Moding, E. J., Owen, S. G., Ko, R., Maxim, P. G., Loo, B. W., Diehn, M.
ELSEVIER SCIENCE INC.2019: E497
- **Molecular Profiling of Oligometastases and Artificial Intelligence-based Model for Predicting Treatment Outcome in Advance Prostate Cancer**
Heidari, N., Bagshaw, H. P., Diehn, M., Snyder, M., Buyyounouski, M. K.
ELSEVIER SCIENCE INC.2019: 1195
- **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+
- **Case series of MET exon 14 skipping mutation-positive non-small-cell lung cancers with response to crizotinib and cabozantinib** *ANTI-CANCER DRUGS*
Wang, S. Y., Zhang, B. M., Wakelee, H. A., Koontz, M. Z., Pan, M., Diehn, M., Kunder, C. A., Neal, J. W.
2019; 30 (5): 537–41
- **FLT-PET-CT for the Detection of Disease Recurrence After Stereotactic Ablative Radiotherapy or Hyperfractionation for Thoracic Malignancy: A Prospective Pilot Study** *FRONTIERS IN ONCOLOGY*
Hiniker, S. M., Sodji, Q., Quon, A., Gutkin, P. M., Arksey, N., Graves, E. E., Chin, F. T., Maxim, P. G., Diehn, M., Loo, B. W.
2019; 9
- **FLT-PET-CT for the Detection of Disease Recurrence After Stereotactic Ablative Radiotherapy or Hyperfractionation for Thoracic Malignancy: A Prospective Pilot Study.** *Frontiers in oncology*
Hiniker, S. M., Sodji, Q., Quon, A., Gutkin, P. M., Arksey, N., Graves, E. E., Chin, F. T., Maxim, P. G., Diehn, M., Loo, B. W.
2019; 9: 467
- **ctDNA analysis for personalization of consolidation immunotherapy in localized non-small cell lung cancer.**
Moding, E. J., Liu, Y., Nabet, B., Chabon, J. J., Chaudhuri, A., Hui, A. B., He, J., Qiao, Y., Heymach, J., Tsao, A. S., Liao, Z. X., Gomez, D., Ramchandran, et al
AMER SOC CLINICAL ONCOLOGY.2019
- **SABR-COMET: harbinger of a new cancer treatment paradigm** *LANCET*
Loo, B. W., Diehn, M.
2019; 393 (10185): 2013–14
- **SABR-COMET: harbinger of a new cancer treatment paradigm.** *Lancet (London, England)*
Loo, B. W., Diehn, M.
2019
- **Increases in Serial Pretreatment 18F-FDG PET-CT Metrics Predict Survival in Early Stage Non-Small Cell Lung Cancer Treated With Stereotactic Ablative Radiation Therapy.** *Advances in radiation oncology*
Prionas, N. D., von Eyben, R., Yi, E., Aggarwal, S., Shaffer, J., Bazan, J., Eastham, D., Maxim, P. G., Graves, E. E., Diehn, M., Gensheimer, M. F., Loo, B. W.
2019; 4 (2): 429–37
- **Increases in Serial Pretreatment F-18-FDG PET-CT Metrics Predict Survival in Early Stage Non-Small Cell Lung Cancer Treated With Stereotactic Ablative Radiation Therapy** *ADVANCES IN RADIATION ONCOLOGY*
Prionas, N. D., von Eyben, R., Yi, E., Aggarwal, S., Shaffer, J., Bazan, J., Eastham, D., Maxim, P. G., Graves, E. E., Diehn, M., Gensheimer, M. F., Loo, B. W.

2019; 4 (2): 429–37

- **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-+
- **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
- **Case series of MET exon 14 skipping mutation-positive non-small-cell lung cancers with response to crizotinib and cabozantinib.** *Anti-cancer drugs*
Wang, S. X., Zhang, B. M., Wakelee, H. A., Koontz, M. Z., Pan, M., Diehn, M., Kunder, C. A., Neal, J. W.
2019
- **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
- **Functional significance of U2AF1 S34F mutations in lung adenocarcinomas** *Nature Communications*
Shahrokh Esfahani, M.
2019; 10
- **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 Ciloleucef 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
- **A Feasibility Study of Single-inhalation, Single-energy Xenon-enhanced CT for High-resolution Imaging of Regional Lung Ventilation in Humans** *ACADEMIC RADIOLOGY*
Pinkham, D. W., Negandar, M., Yamamoto, T., Mitra, E., Diehn, M., Nair, V. S., Keall, P. J., Maxim, P. G., Loo, B. W.
2019; 26 (1): 38–49
- **The use of texture-based radiomics CT analysis to predict outcomes in early-stage non-small cell lung cancer treated with stereotactic ablative radiotherapy** *BRITISH JOURNAL OF RADIOLOGY*
Starkov, P., Aguilera, T. A., Golden, D., Shultz, D. B., Trakul, N., Maxim, P. G., Quynh-Thu Le, Loo, B. W., Diehn, M., Depeursinge, A., Rubin, D. L.
2019; 92 (1094)

- **Stereotactic Ablative Radiotherapy for Central and Ultra-Central Lung Tumors.** *Therapeutic radiology and oncology*
Chaudhuri, A. A., Chen, K. n., Diehn, M. n., Loo, B. W.
2019; 3
- **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
2019
- **Role of KEAP1/NFE2L2 mutations in the chemotherapeutic response of non-small cell lung cancer patients.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Jeong, Y. n., Hellyer, J. A., Stehr, H. n., Hoang, N. T., Niu, X. n., Das, M. n., Padda, S. K., Ramchandran, K. n., Neal, J. W., Wakelee, H. A., Diehn, M. n.
2019
- **Functional significance of U2AF1 S34F mutations in lung adenocarcinomas.** *Nature communications*
Esfahani, M. S., Lee, L. J., Jeon, Y. J., Flynn, R. A., Stehr, H. n., Hui, A. B., Ishisoko, N. n., Kildebeck, E. n., Newman, A. M., Bratman, S. V., Porteus, M. H., Chang, H. Y., Alizadeh, et al
2019; 10 (1): 5712
- **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
- **Impact of KEAP1/NFE2L2/CUL3 mutations on duration of response to EGFR tyrosine kinase inhibitors in EGFR mutated non-small cell lung cancer.** *Lung cancer (Amsterdam, Netherlands)*
Hellyer, J. A., Stehr, H. n., Das, M. n., Padda, S. K., Ramchandran, K. n., Neal, J. W., Diehn, M. n., Wakelee, H. A.
2019; 134: 42–45
- **Predictors of Respiratory Decline Following Stereotactic Ablative Radiotherapy to Multiple Lung Tumors.** *Clinical lung cancer*
Moding, E. J., Liang, R. n., Lartey, F. M., Maxim, P. G., Sung, A. n., Diehn, M. n., Loo, B. W., Gensheimer, M. F.
2019
- **Current Status and Future Perspectives on Neoadjuvant Therapy in Lung Cancer** *JOURNAL OF THORACIC ONCOLOGY*
Blumenthal, G. M., Bunn, P. A., Chaft, J. E., McCoach, C. E., Perez, E. A., Scagliotti, G. V., Carbone, D. P., Aerts, H. L., Aisner, D. L., Bergh, J., Berry, D. A., Jarkowski, A., Botwood, et al
2018; 13 (12): 1818–31
- **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
- **The use of texture-based radiomics CT analysis to predict outcomes in early-stage non-small cell lung cancer treated with stereotactic ablative radiotherapy.** *The British journal of radiology*
Starkov, P., Aguilera, T. A., Golden, D. I., Shultz, D. B., Trakul, N., Maxim, P. G., Le, Q., Loo, B. W., Diehn, M., Depeursinge, A., Rubin, D. L.
2018: 20180228
- **A Quantitative CT Imaging Signature Predicts Survival and Complements Established Prognosticators in Stage I Non-Small Cell Lung Cancer** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*

- Lee, J., Li, B., Cui, Y., Sun, X., Wu, J., Zhu, H., Yu, J., Gensheimer, M. F., Loo, B. W., Diehn, M., Li, R.
2018; 102 (4): 1098–1106
- **F-18-EF5 PET-based Imageable Hypoxia Predicts Local Recurrence in Tumors Treated With Highly Conformal Radiation Therapy** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Qian, Y., Von Eyben, R., Liu, Y., Chin, F. T., Miao, Z., Apte, S., Carter, J. N., Binkley, M. S., Pollom, E. L., Harris, J. P., Prionas, N. D., Kissel, M., Simmons, et al
2018; 102 (4): 1183–92
 - **Comparison of Genomic Driver Oncogenes in Vietnamese Patients With Non-Small-Cell Lung Cancer in the United States and Vietnam** *JOURNAL OF GLOBAL ONCOLOGY*
Nguyen, K. H., Stehr, H., Zhou, L., Anh-Hoa Nguyen, Pham Nhu Hiep, Nguyen Van Cau, Phan Canh Duy, Thorp, R., Wakelee, H. A., Diehn, M., Neal, J. W.
2018; 4
 - **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
 - **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
 - **Comparison of Genomic Driver Oncogenes in Vietnamese Patients With Non-Small-Cell Lung Cancer in the United States and Vietnam.** *Journal of global oncology*
Nguyen, K. H., Stehr, H., Zhou, L., Nguyen, A., Hiep, P. N., Van Cau, N., Duy, P. C., Thorp, R., Wakelee, H. A., Diehn, M., Neal, J. W.
2018: 1–9
 - **Radiologic Quantification and Predictors of Lung Fibrosis after Stereotactic Ablative Radiation Therapy(SABR)**
Ross, J. B., Schueler, E., Ko, R., Bush, K., Maxim, P. G., Gensheimer, M. F., Loo, B. W., Diehn, M.
ELSEVIER SCIENCE INC.2018: E703
 - **Esophagitis in Patients Treated with Thoracic Stereotactic Ablative Radiation Therapy (SABR) to Tumors within 2 cm of the Esophagus**
Quaavi, S., Ko, R., Bush, K., Binkley, M. S., Pickthorn, W., Maxim, P. G., Gensheimer, M. F., Diehn, M., Loo, B. W.
ELSEVIER SCIENCE INC.2018: E666
 - **Predicting Per-Lesion Local Recurrence in Locally Advanced Lung Cancer using Metabolic Tumor Volume on Pre- and Mid-Radiation FDG-PET**
Binkley, M. S., Koenig, J. L., Sodji, Q., Maxim, P. G., Diehn, M., Loo, B. W., Gensheimer, M. F.
ELSEVIER SCIENCE INC.2018: E674
 - **Pulmonary Interstitial Lymphography and Patterns of Recurrence after Stereotactic Ablative Radiation Therapy(SABR) of Lung Tumors**
Ko, R. B., Abelson, J. A., Kothary, N., Fleischmann, D., Hofmann, L., Hovsepian, D., Louie, J. D., Hwang, G., Sze, D. H., Kielar, K., Maxim, P. G., Le, Q. T., Diehn, et al
ELSEVIER SCIENCE INC.2018: E689
 - **F-18-EF5 PET-based Imageable Hypoxia Predicts Local Recurrence in Tumors Treated with Highly Conformal Radiation Therapy**
Qian, Y., Von Eyben, R., Liu, Y., Chin, F., Miao, Z., Apte, S., Carter, J. N., Binkley, M. S., Pollom, E., Harris, J. P., Prionas, N. D., Kissel, M., Simmons, et al
ELSEVIER SCIENCE INC.2018: S114–S115
 - **Quantitating circulating tumor DNA in translocation-positive sarcoma patients using CAPP-Seq**
Shah, A., Azad, T. D., Chabon, J. J., Breese, M., Tanasa, B., Spillinger, A., Leung, S. G., Diehn, M., Alizadeh, A. A., Sweet-Cordero, E.
AMER ASSOC CANCER RESEARCH.2018
 - **Invasive nodal evaluation prior to stereotactic ablative radiation for non-small cell lung cancer** *LUNG CANCER*
Harris, J. P., Nwachukwu, C., Qian, Y., Pollom, E., Loo, B. W., Das, M., Diehn, M.
2018; 124: 76–85
 - **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 Analysis in Patients With Cancer American Society of Clinical Oncology and College of American Pathologists Joint Review** *ARCHIVES OF PATHOLOGY & LABORATORY MEDICINE*
Merker, J. D., Oxnard, G. R., Compton, C., Diehn, M., Hurley, P., Lazar, A. J., Lindeman, N., Lockwood, C. M., Rai, A. J., Schilsky, R. L., Tsimberidou, A. M., Vasalos, P., Billman, et al
2018; 142 (10): 1242-1253
 - **Invasive nodal evaluation prior to stereotactic ablative radiation for non-small cell lung cancer.** *Lung cancer (Amsterdam, Netherlands)*
Harris, J. P., Nwachukwu, C., Qian, Y., Pollom, E., Loo, B. W., Das, M., Diehn, M.
2018; 124: 76–85
 - **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
 - **Prognostic Value of Pretreatment FDG-PET Parameters in High-dose Image-guided Radiotherapy for Oligometastatic Non-Small-cell Lung Cancer** *CLINICAL LUNG CANCER*
Chin, A. L., Kumar, K. A., Guo, H. H., Maxim, P. G., Wakelee, H., Neal, J. W., Diehn, M., Loo, B. W., Gensheimer, M. F.
2018; 19 (5): E581–E588
 - **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
 - **GFPT2-Expressing Cancer-Associated Fibroblasts Mediate Metabolic Reprogramming in Human Lung Adenocarcinoma** *CANCER RESEARCH*
Zhang, W., Bouchard, G., Yu, A., Shafiq, M., Jamali, M., Shrager, J. B., Ayers, K., Bakr, S., Gentles, A. J., Diehn, M., Quon, A., West, R. B., Nair, et al
2018; 78 (13): 3445–57
 - **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
 - **Circulating Tumor DNA Analysis in Patients With Cancer: American Society of Clinical Oncology and College of American Pathologists Joint Review** *JOURNAL OF CLINICAL ONCOLOGY*
Merker, J. D., Oxnard, G. R., Compton, C., Diehn, M., Hurley, P., Lazar, A. J., Lindeman, N., Lockwood, C. M., Rai, A. J., Schilsky, R. L., Tsimberidou, A. M., Vasalos, P., Billman, et al
2018; 36 (16): 1631-+
 - **Circulating Tumor DNA Analysis in Patients With Cancer: American Society of Clinical Oncology and College of American Pathologists Joint Review.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
Merker, J. D., Oxnard, G. R., Compton, C., Diehn, M., Hurley, P., Lazar, A. J., Lindeman, N., Lockwood, C. M., Rai, A. J., Schilsky, R. L., Tsimberidou, A. M., Vasalos, P., Billman, et al
2018; 36 (16): 1631–41
 - **18F-EF5 Pet-Based Imageable Hypoxia Predicts for Local Control in Tumors Treated With Conformal Radiotherapy**
Qian, Y., Liu, Y., Von Eyben, R., Carter, J. N., Pollom, E. L., Harris, J. P., Prionas, N. D., Binkley, M. S., Simmons, A., Diehn, M., Chin, F. T., Shultz, D. B., Brown, et al

ELSEVIER SCIENCE INC.2018: E17–E18

- **Early detection of post-transplant lymphoproliferative disorder using circulating tumor DNA.**
Soo, J., Schroers-Martin, J., Garofalo, A., Kurtz, D., D'Emilio, N., Grimm, D.
AMER SOC CLINICAL ONCOLOGY.2018
- **Post-transplant head and neck cancers: A prospective analysis of clinical factors for risk stratification.**
Soo, J., Schroers-Martin, J., Garofalo, A., Kurtz, D., D'Emilio, N., Grimm, D.
AMER SOC CLINICAL ONCOLOGY.2018
- **GFPT2-expressing cancer-associated fibroblasts mediate metabolic reprogramming in human lung adenocarcinoma.** *Cancer research*
Zhang, W., Bouchard, G., Yu, A., Shafiq, M., Jamali, M., Shrager, J. B., Ayers, K., Bakr, S., Gentles, A. J., Diehn, M., Quon, A., West, R. B., Nair, et al
2018
- **Circulating tumor DNA testing in advanced non-small cell lung cancer.** *Lung cancer (Amsterdam, Netherlands)*
Moding, E. J., Diehn, M., Wakelee, H. A.
2018; 119: 42–47
- **Circulating tumor DNA testing in advanced non-small cell lung cancer** *LUNG CANCER*
Moding, E. J., Diehn, M., Wakelee, H. A.
2018; 119: 42–47
- **Interim results of a randomized trial of observation versus SABR for oligometastatic prostate cancer**
Tran, P., Radwan, N., Phillips, R., Ross, A., Rowe, S., Gorin, M., Antonarakis, E., DeVille, C., Greco, S., Dennebade, S., Paller, C., Song, D., Diehn, et al
ELSEVIER IRELAND LTD.2018: S261
- **The Future of Radiobiology** *JNCI-JOURNAL OF THE NATIONAL CANCER INSTITUTE*
Kirsch, D. G., Diehn, M., Kesarwala, A. H., Maity, A., Morgan, M. A., Schwarz, J. K., Bristow, R., Demaria, S., Eke, I., Griffin, R. J., Haas-Kogan, D., Higgins, G. S., Kimmelman, et al
2018; 110 (4): 329–40
- **A Feasibility Study of Single-inhalation, Single-energy Xenon-enhanced CT for High-resolution Imaging of Regional Lung Ventilation in Humans.** *Academic radiology*
Pinkham, D. W., Negahdar, M., Yamamoto, T., Mitra, E., Diehn, M., Nair, V. S., Keall, P. J., Maxim, P. G., Loo, B. W.
2018
- **Circulating Tumor DNA Analysis in Patients With Cancer: American Society of Clinical Oncology and College of American Pathologists Joint Review.** *Archives of pathology & laboratory medicine*
Merker, J. D., Oxnard, G. R., Compton, C., Diehn, M., Hurley, P., Lazar, A. J., Lindeman, N., Lockwood, C. M., Rai, A. J., Schilsky, R. L., Tsimberidou, A. M., Vasalos, P., Billman, 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): 2658-2676
- **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., Forgo, E., Varma, S., Zhu, S., Debiec-Rychter, M., Alizadeh, A., Diehn, M., van de Rijn, et al
AMER ASSOC CANCER RESEARCH.2018: 38–39
- **Line-Enhanced Deformable Registration of Pulmonary Computed Tomography Images Before and After Radiation Therapy With Radiation-Induced Fibrosis** *TECHNOLOGY IN CANCER RESEARCH & TREATMENT*
King, M., Sensakovic, W. F., Maxim, P., Diehn, M., Loo, B. W., Xing, L.
2018; 17
- **Detection and surveillance of bladder cancer using urine tumor DNA.** *Cancer discovery*
Dudley, J. C., Schroers-Martin, J. n., Lazzareschi, D. V., Shi, W. Y., Chen, S. B., Esfahani, M. S., Trivedi, D. n., Chabon, J. J., Chaudhuri, A. A., Stehr, H. n., Liu, C. L., Lim, H. n., Costa, et al
2018

- **Deep Sequencing Reveals High Allelic Frequencies of Tumor Mutations in the High Risk Airway Epithelium**
Atwater, T., Rahman, S., Diehn, M., Massion, P. P.
AMER THORACIC SOC.2018
- **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
- **Prognostic Value of Pretreatment FDG-PET Parameters in High-dose Image-guided Radiotherapy for Oligometastatic Non-Small-cell Lung Cancer.** *Clinical lung cancer*
Chin, A. L., Kumar, K. A., Guo, H. H., Maxim, P. G., Wakelee, H. n., Neal, J. W., Diehn, M. n., Loo, B. W., Gensheimer, M. F.
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
- **Line-Enhanced Deformable Registration of Pulmonary Computed Tomography Images Before and After Radiation Therapy With Radiation-Induced Fibrosis.** *Technology in cancer research & treatment*
King, M., Sensakovic, W. F., Maxim, P., Diehn, M., Loo, B. W., Xing, L.
2018; 17: 1533034617749419
- **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. n., Chabon, J. J., Spans, L. n., Ganjoo, K. n., Vennam, S. n., Newman, A. M., Forgó, E. n., Varma, S. n., Zhu, S. n., Debiec-Rychter, M. n., Alizadeh, A. A., Diehn, M. n., van de Rijn, et al
2018
- **18F-EF5 PET-based Imageable Hypoxia Predicts Local Recurrence in Tumors Treated With Highly Conformal Radiation Therapy.** *International journal of radiation oncology, biology, physics*
Qian, Y. n., Von Eyben, R. n., Liu, Y. n., Chin, F. T., Miao, Z. n., Apte, S. n., Carter, J. N., Binkley, M. S., Pollom, E. L., Harris, J. P., Prionas, N. D., Kissel, M. n., Simmons, et al
2018
- **Endothelial deletion of Ino80 disrupts coronary angiogenesis and causes congenital heart disease.** *Nature communications*
Rhee, S. n., Chung, J. I., King, D. A., D'amato, G. n., Paik, D. T., Duan, A. n., Chang, A. n., Nagelberg, D. n., Sharma, B. n., Jeong, Y. n., Diehn, M. n., Wu, J. C., Morrison, et al
2018; 9 (1): 368
- **A Quantitative CT Imaging Signature Predicts Survival and Complements Established Prognosticators in Stage I Non-Small Cell Lung Cancer.** *International journal of radiation oncology, biology, physics*
Lee, J. n., Li, B. n., Cui, Y. n., Sun, X. n., Wu, J. n., Zhu, H. n., Yu, J. n., Gensheimer, M. F., Loo, B. W., Diehn, M. n., Li, R. n.
2018
- **Mid-radiotherapy PET/CT for prognostication and detection of early progression in patients with stage III non-small cell lung cancer** *RADIOTHERAPY AND ONCOLOGY*
Gensheimer, M. F., Hong, J. C., Chang-Halpenny, C., Zhu, H., Eclov, N. W., To, J., Murphy, J. D., Wakelee, H. A., Neal, J. W., Le, Q., Hara, W. Y., Quon, A., Maxim, et al
2017; 125 (2): 338–43
- **Clinical and Pathological Variables Influencing Noninvasive Detection of Early Stage Lung Cancer Using Circulating Tumor DNA**
Chabon, J., Chaudhuri, A., Azad, T., Kurtz, D., Stehr, H., Liu, C. L., Martin, J., Merriott, D., Carter, J., Ayers, K., Mansfield, A., Jen, J., Ren, et al
ELSEVIER SCIENCE INC.2017: S1851
- **Practical workflow for rapid prototyping of radiation therapy positioning devices** *PRACTICAL RADIATION ONCOLOGY*
Gensheimer, M. F., Bush, K., Juang, T., Herzberg, B., Villegas, M., Maxim, P. G., Diehn, M., Loo, B. W.
2017; 7 (6): 442–45
- **Radiogenomic Analysis of a Peritumoral CT Image Feature and Its Prognostic Value in Early Stage NSCLC**
Lee, J., Cui, Y., Gensheimer, M. F., Loo, B. W., Diehn, M., Li, R.
ELSEVIER SCIENCE INC.2017: S48

- **Safety and Efficacy of Stereotactic Ablative Radiotherapy (SABR) to Multiple (3 or More) Lung Tumors**
Moding, E. J., Maxim, P. G., Diehn, M., Loo, B. W., Gensheimer, M. F.
ELSEVIER SCIENCE INC.2017: E482
- **Outcomes of Moderately Hypofractionated Intensity-Modulated Thoracic Radiotherapy with Concurrent Chemotherapy for Treatment of Non-Small Cell Lung Cancer**
Xiang, M., Gensheimer, M. F., Maxim, P. G., Wakelee, H. A., Neal, J. W., Diehn, M., Loo, B. W.
ELSEVIER SCIENCE INC.2017: E504
- **Mid-radiation Therapy PET/CT for Prognostication and Detection of Early Progression in Patients With Stage III Non-small Cell Lung Cancer**
Gensheimer, M. F., Hong, J. C., Chang-Halpenny, C. N., Eclow, N., To, J., Murphy, J. D., Wakelee, H. A., Neal, J. W., Le, Q. T., Hara, W., Quon, A., Maxim, P. G., Graves, et al
ELSEVIER SCIENCE INC.2017: E456
- **Circulating Tumor DNA Analysis during Radiation Therapy for Localized Lung Cancer Predicts Treatment Outcome**
Chaudhuri, A. A., Lovejoy, A. F., Chabon, J. J., Newman, A., Stehr, H., Merriott, D. J., Carter, J. N., Azad, T. D., Padda, S., Gensheimer, M. F., Wakelee, H. A., Neal, J. W., Loo, et al
ELSEVIER SCIENCE INC.2017: S1–S2
- **Comparison of Circulating Tumor DNA Analysis and Surveillance Imaging After Treatment for Localized Lung Cancer**
Chaudhuri, A. A., Chabon, J. J., Lovejoy, A. F., Newman, A., Stehr, H., Azad, T. D., Carter, J. N., Merriott, D. J., Liu, C. L., Kurtz, D. M., Gensheimer, M. F., Shrager, J. B., Wakelee, et al
ELSEVIER SCIENCE INC.2017: S114
- **Pretreatment Circulating Tumor DNA for Risk Stratification of Locally Advanced Esophageal Cancer Treated With Chemoradiation and Surgery**
Azad, T. D., Chaudhuri, A. A., Newman, A., Stehr, H., Schroers-Martin, J., Chabon, J. J., Fang, P., Qiao, Y., Liao, Z., Komaki, R. U., Alizadeh, A. A., Lin, S. H., Diehn, et al
ELSEVIER SCIENCE INC.2017: S90–S91
- **Patterns of Care and Health Disparities for Patients With Stage I Non-small Cell Lung Cancer in the US**
Harris, J. P., Nwachukwu, C. R., Loo, B. W., Das, M., Diehn, M.
ELSEVIER SCIENCE INC.2017: E399
- **Circulating Tumor DNA Quantitation for Early Response Assessment of Immune Checkpoint Inhibitors for Lung Cancer**
Merriott, D. J., Chaudhuri, A. A., Jin, M., Chabon, J. J., Newman, A., Stehr, H., Say, C., Carter, J. N., Walters, S., Becker, H. R., Das, M., Padda, S., Loo, et al
ELSEVIER SCIENCE INC.2017: S20–S21
- **Validation of Temporal Change in Quantitative PET Metrics as Predictors of Recurrence in Early Stage Lung Cancer Patients Treated With SABR**
Prionas, N. D., Yi, E., Aggarwal, S., Shaffer, J., Von Eyben, R., Graves, E. E., Maxim, P. G., Gensheimer, M. F., Diehn, M., Loo, B. W.
ELSEVIER SCIENCE INC.2017: S18–S19
- **Randomized Phase II Study of Preoperative Chemoradiotherapy +/- Panitumumab Followed by Consolidation Chemotherapy in Potentially Operable Locally Advanced (Stage IIIa, N2+) Non-Small Cell Lung Cancer: NRG Oncology RTOG 0839 JOURNAL OF THORACIC ONCOLOGY**
Edelman, M. J., Hu, C., Quynh-Thu Le, Donington, J. S., D'Souza, W. D., Dicker, A. P., Loo, B. W., Gore, E. M., Videtic, G. M., Evans, N. R., Leach, J. W., Diehn, M., Feigenberg, S. J., et al
2017; 12 (9): 1413–20
- **Normal Tissue Constraints for Abdominal and Thoracic Stereotactic Body Radiotherapy. Seminars in radiation oncology**
Pollom, E. L., Chin, A. L., Diehn, M., Loo, B. W., Chang, D. T.
2017; 27 (3): 197-208
- **A phase II randomized trial of Observation versus stereotactic ablative Radiation for OLigometastatic prostate CancEr (ORIOLE) BMC CANCER**
Radwan, N., Phillips, R., Ross, A., Rowe, S. P., Gorin, M. A., Antonarakis, E. S., Deville, C., Greco, S., Denmeade, S., Paller, C., Song, D. Y., Diehn, M., Wang, et al
2017; 17: 453

- **Stereotactic Ablative Radiotherapy for Stage I Non-Small-Cell Lung Cancer Tumors Greater Than 5 cm**
Anderson, E. M., Sharma, A., Westover, K. D., Timmerman, R., von Eyben, R., Gensheimer, M. F., Maxim, P., Loo, B. W., Diehn, M., Shultz, D. B.
ELSEVIER SCIENCE INC.2017: E38
- **Circulating Tumor DNA Detects Residual Disease and Anticipates Tumor Progression Earlier Than CT Imaging**
Chaudhuri, A. A., Chabon, J. J., Lovejoy, A. F., Newman, A. M., Stehr, H., Azad, T. D., Zhou, L., Liu, C., Scherer, F., Kurtz, D. M., Esfahani, M. S., Say, C., Carter, et al
ELSEVIER SCIENCE INC.2017: E4
- **A population-based comparative effectiveness study of chemoradiation regimens and sequences in stage III non-small cell lung cancer** *LUNG CANCER*
Harris, J. P., Patel, M. I., Loo, B. W., Wakelee, H. A., Diehn, M.
2017; 108: 173–82
- **A phase II randomized trial of observation versus stereotactic ablative radiation for oligometastatic prostate cancer (ORIOLE).**
Phillips, R., Radwan, N., Ross, A., Rowe, S. P., Gorin, M. A., Antonarakis, E. S., Deville, C., Greco, S. C., Denmeade, S. R., Paller, C., Song, D. Y., Diehn, M., Wang, et al
AMER SOC CLINICAL ONCOLOGY.2017
- **Elucidation of distinct mutational patterns between diffuse large B cell lymphoma subtypes utilizing circulating tumor DNA.**
Soo, J., Kurtz, D., Scherer, F., Craig, A. M., Jin, M. C., Westin, J. R., Rossi, D., Gaidano, G., Advani, R. H., Diehn, M., Alizadeh, A. A.
AMER SOC CLINICAL ONCOLOGY.2017
- **Noninvasive detection of clinically relevant copy number alterations in diffuse large B-cell lymphoma.**
Jin, M. C., Kurtz, D., Esfahani, M., Scherer, F., Craig, A. M., Soo, J., Khodadoust, M., Saganty, R., Chabon, J. J., Schroers-Martin, J., Stehr, H., Advani, R. H., Rossi, et al
AMER SOC CLINICAL ONCOLOGY.2017
- **Circulating tumor DNA analysis for outcome prediction in localized esophageal cancer.**
Azad, T. D., Chaudhuri, A., Newman, A. M., Stehr, H., Schroers-Martin, J., Chabon, J. J., Fang, P., Qiao, Y., Liao, Z. X., Komaki, R., Alizadeh, A. A., Lin, S. H., Diehn, et al
AMER SOC CLINICAL ONCOLOGY.2017
- **Case Series of MET Exon 14 Skipping Mutation-positive Non-Small Cell Lung Cancers and Response to Crizotinib.** *International journal of radiation oncology, biology, physics*
Wang, S. X., Zhang, B., Wakelee, H. A., Diehn, M., Kunder, C., Neal, J. W.
2017; 98 (1): 239-?
- **Pulmonary function after lung tumor stereotactic ablative radiotherapy depends on regional ventilation within irradiated lung.** *Radiotherapy and oncology*
Binkley, M. S., King, M. T., Shrager, J. B., Bush, K., Chaudhuri, A. A., Popat, R., Gensheimer, M. F., Maxim, P. G., Henry Guo, H., Diehn, M., Nair, V. S., Loo, B. W.
2017; 123 (2): 270-275
- **Sinoatrial node dysfunction after stereotactic ablative radiation therapy in the chest**
Qian, Y., Dudley, S., Kumar, K., Chaudhuri, A., Chin, A., Harris, J., Prionas, N., Nwachukwu, C., Bagshaw, H., Pollom, E. L., Ben Durkee, Shultz, D., Gensheimer, M. F., et al
AMER SOC CLINICAL ONCOLOGY.2017
- **ERBB2-Mutated Metastatic Non-Small Cell Lung Cancer: Response and Resistance to Targeted Therapies.** *Journal of thoracic oncology*
Chuang, J. C., Stehr, H., Liang, Y., Das, M., Huang, J., Diehn, M., Wakelee, H. A., Neal, J. W.
2017
- **Role of KEAP1/NRF2 and TP53 Mutations in Lung Squamous Cell Carcinoma Development and Radiation Resistance** *CANCER DISCOVERY*
Jeong, Y., Hoang, N. T., Lovejoy, A., Stehr, H., Newman, A. M., Gentles, A. J., Kong, W., Diana Truong, D., Martin, S., Chaudhuri, A., Heiser, D., Zhou, L., Say, et al
2017; 7 (1): 86-101
- **Sinoatrial node toxicity after stereotactic ablative radiation therapy to lung tumors.** *Practical radiation oncology*
Qian, Y. n., Zhu, H. n., Pollom, E. L., Durkee, B. Y., Chaudhuri, A. A., Gensheimer, M. F., Diehn, M. n., Shultz, D. B., Loo, B. W.

2017

- **Data normalization considerations for digital tumor dissection.** *Genome biology*
Newman, A. M., Gentles, A. J., Liu, C. L., Diehn, M. n., Alizadeh, A. A.
2017; 18 (1): 128
- **High-throughput sequencing for noninvasive disease detection in hematologic malignancies.** *Blood*
Scherer, F. n., Kurtz, D. M., Diehn, M. n., Alizadeh, A. A.
2017; 130 (4): 440–52
- **Development and Validation of an Individualized Immune Prognostic Signature in Early-Stage Nonsquamous Non-Small Cell Lung Cancer.** *JAMA oncology*
Li, B. n., Cui, Y. n., Diehn, M. n., Li, R. n.
2017
- **Deactivated CRISPR Associated Protein 9 for Minor-Allele Enrichment in Cell-Free DNA.** *Clinical chemistry*
Aalipour, A. n., Dudley, J. C., Park, S. M., Murty, S. n., Chabon, J. J., Boyle, E. A., Diehn, M. n., Gambhir, S. S.
2017
- **Prognostic value and molecular correlates of a CT image-based quantitative pleural contact index in early stage NSCLC.** *European radiology*
Lee, J. n., Cui, Y. n., Sun, X. n., Li, B. n., Wu, J. n., Li, D. n., Gensheimer, M. F., Loo, B. W., Diehn, M. n., Li, R. n.
2017
- **Capturing Genomic Evolution of Lung Cancers through Liquid Biopsy for Circulating Tumor DNA.** *Journal of oncology*
Offin, M., Chabon, J. J., Razavi, P., Isbell, J. M., Rudin, C. M., Diehn, M., Li, B. T.
2017; 2017: 4517834-?
- **Evolution and clinical impact of co-occurring genetic alterations in advanced-stage EGFR-mutant lung cancers.** *Nature genetics*
Blakely, C. M., Watkins, T. B., Wu, W. n., Gini, B. n., Chabon, J. J., McCoach, C. E., McGranahan, N. n., Wilson, G. A., Birkbak, N. J., Olivas, V. R., Rotow, J. n., Maynard, A. n., Wang, et al
2017; 49 (12): 1693–1704
- **Comprehensive Analysis of the Unfolded Protein Response in Breast Cancer Subtypes.** *JCO precision oncology*
Jiang, D., Turner, B., Song, J., Li, R., Diehn, M., Le, Q., Khatri, P., Koong, A. C.
2017; 2017
- **Molecular profiling of single circulating tumor cells from lung cancer patients** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Park, S., Wong, D. J., Ooi, C. C., Kurtz, D. M., Vermesh, O., Aalipour, A., Suh, S., Pian, K. L., Chabon, J. J., Lee, S. H., Jamali, M., Say, C., Carter, et al
2016; 113 (52): E8379-E8386
- **Reprogramming the immunological microenvironment through radiation and targeting Axl** *NATURE COMMUNICATIONS*
Aguilera, T. A., Rafat, M., Castellini, L., Shehade, H., Kariolis, M. S., Hui, A. B., Stehr, H., von Eyben, R., Jiang, D., Ellies, L. G., Koong, A. C., Diehn, M., Rankin, et al
2016; 7
- **Absence of Evidence Implicating Hematopoietic Stem Cells As Common Progenitors for DLBCL Mutations**
Jan, M., Scherer, F., Kurtz, D. M., Newman, A. M., Stehr, H., Liu, C., Zhou, L., Glover, C., Advani, R. H., Maeda, L. S., Gupta, N. K., Levy, R., Kunder, et al
AMER SOC HEMATOLOGY.2016
- **Development and Validation of Biopsy-Free Genotyping for Molecular Subtyping of Diffuse Large B-Cell Lymphoma** *58th Annual Meeting and Exposition of the American-Society-of-Hematology*
Scherer, F., Kurtz, D. M., Newman, A. M., Esfahani, M. S., Craig, A., Stehr, H., Lovejoy, A. F., Chabon, J. J., Liu, C. L., Zhou, L., Glover, C., Visser, B. C., Poultsides, et al
AMER SOC HEMATOLOGY.2016
- **Noninvasive Detection of Ibrutinib Resistance in Non-Hodgkin Lymphoma Using Cell-Free DNA**
Scherer, F., Kurtz, D. M., Newman, A. M., Craig, A., Stehr, H., Zhou, L., Glover, C., Kohrt, H., Levy, R., Diehn, M., Alizadeh, A. A.

AMER SOC HEMATOLOGY.2016

- **Noninvasive Detection of BCL2, BCL6, and MYC Translocations in Diffuse Large B-Cell Lymphoma**
Kurtz, D. M., Scherer, F., Newman, A. M., Craig, A., Jin, M., Stehr, H., Chabon, J. J., Esfahani, M., Liu, C., Zhou, L., Glover, C., Visser, B. C., Poultides, et al
AMER SOC HEMATOLOGY.2016
- **A 3-D Riesz-Covariance Texture Model for Prediction of Nodule Recurrence in Lung CT** *IEEE TRANSACTIONS ON MEDICAL IMAGING*
Cirujeda, P., Cid, Y. D., Muller, H., Rubin, D., Aguilera, T. A., Loo, B. W., Diehn, M., Binefa, X., Depeursinge, A.
2016; 35 (12): 2620-2630
- **Corrigendum: 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: 13513-?
- **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)
- **Control of inflammation by stromal Hedgehog pathway activation restrains colitis.** *Proceedings of the National Academy of Sciences of the United States of America*
Lee, J. J., Rothenberg, M. E., Seeley, E. S., Zimdahl, B., Kawano, S., Lu, W., Shin, K., Sakata-Kato, T., Chen, J. K., Diehn, M., Clarke, M. F., Beachy, P. A.
2016
- **Hypofractionated Intensity-Modulated Radiotherapy for Patients With Non-Small-Cell Lung Cancer.** *Clinical lung cancer*
Pollom, E. L., Qian, Y., Durkee, B. Y., von Eyben, R., Maxim, P. G., Shultz, D. B., Gensheimer, M., Diehn, M., Loo, B. W.
2016; 17 (6): 588-594
- **PS01.67: Case Series of MET Exon 14 Skipping Mutation-Positive Non-Small Cell Lung Cancers and Response to Crizotinib: Topic: Medical Oncology.** *Journal of thoracic oncology*
Wang, S. X., Zhang, B. M., Wakelee, H., Diehn, M., Kunder, C. A., Neal, J. W.
2016; 11 (11S): S312-S313
- **Early-Stage Non-Small Cell Lung Cancer: Quantitative Imaging Characteristics of (18)F Fluorodeoxyglucose PET/CT Allow Prediction of Distant Metastasis.** *Radiology*
Wu, J., Aguilera, T., Shultz, D., Gudur, M., Rubin, D. L., Loo, B. W., Diehn, M., Li, R.
2016; 281 (1): 270-278
- **CAPP-Seq Circulating Tumor DNA Analysis for Early Detection of Tumor Progression After Definitive Radiation Therapy for Lung Cancer**
Chaudhuri, A. A., Lovejoy, A. F., Chabon, J. J., Newman, A., Stehr, H., Say, C., Aggarwal, S., Carter, J. N., West, R. B., Neal, J. W., Wakelee, H. A., Loo, B. W., Alizadeh, et al
ELSEVIER SCIENCE INC.2016: S41-S42
- **Patterns of Failure After Hypofractionated Intensity Modulated Radiation Therapy for Patients With Non-Small Cell Lung Cancer**
Qian, Y., Pollom, E., Durkee, B. Y., von Eyben, R., Gensheimer, M. F., Shultz, D. B., Diehn, M., Loo, B. W.
ELSEVIER SCIENCE INC.2016: E422-E423
- **Effectiveness of Radiation Therapy for Low- to Intermediate-Grade Neuroendocrine Tumors**
Carter, J. N., Aggarwal, S., Radish, K., Allen, J. R., Koong, A. C., Chang, D. T., Loo, B. W., Diehn, M., Kunz, P. L., Gensheimer, M. F.
ELSEVIER SCIENCE INC.2016: E202-E203
- **Four-Dimensional Computed Tomography Pulmonary Nodule Elastometry as a Predictor of Regional Recurrence Following Stereotactic Ablative Radiation Therapy for Early-Stage Non-Small Cell Lung Cancer**
Shaffer, J., Negahdar, M., von Eyben, R., Diehn, M., Maxim, P. G., Loo, B. W.
ELSEVIER SCIENCE INC.2016: E460

- **Temporal Change in Quantitative Positron Emission Tomography Metrics Predicts Recurrence in Early-Stage Lung Cancer Patients Treated With Stereotactic Ablative Radiation Therapy**
Prionas, N. D., Aggarwal, S., Shaffer, J., von Eyben, R., Graves, E. E., Maxim, P. G., Quon, A., Gensheimer, M. F., Diehn, M., Loo, B. W.
ELSEVIER SCIENCE INC.2016: E457
- **Regional Ventilation Predicts Change in Pulmonary Function After Stereotactic Ablative Radiation Therapy of Lung Tumors**
Binkley, M. S., King, M., Bush, K., Shrager, J. B., Chaudhuri, A. A., Popat, R., Maxim, P. G., Guo, H. H., Diehn, M., Nair, V. S., Loo, B. W.
ELSEVIER SCIENCE INC.2016: E456–E457
- **Imaging Features Associated With Disease Progression After Stereotactic Ablative Radiation Therapy for Early-Stage Non-Small Cell Lung Cancer: A Multi-Institutional Pooled Analysis**
Anderson, E., Filippi, A. R., Badellino, S., Ricardi, U., von Eyben, R., Gensheimer, M. F., Diehn, M., Loo, B. W., Shultz, D. B.
ELSEVIER SCIENCE INC.2016: E485–E486
- **Role of Surveillance Imaging Versus Symptoms and Signs in Detection of Recurrence of Non-Small Cell Lung Cancer After Curative Intent Therapy**
Waliany, S., Shultz, D. B., Gensheimer, M. F., Loo, B. W., Diehn, M.
ELSEVIER SCIENCE INC.2016: S155
- **Vesselness-Based Deformable Registration Algorithms Can Reduce Landmark Errors in the Registration of Pulmonary Computed Tomography Images Before and After Radiation Therapy**
King, M., Xiong, G., Maxim, P. G., Diehn, M., Loo, B. W., Xing, L.
ELSEVIER SCIENCE INC.2016: S227
- **Intratumor Partitioning of Serial Computed Tomography and FDG Positron Emission Tomography Images Identifies High-Risk Tumor Subregions and Predicts Patterns of Failure in Non-Small Cell Lung Cancer After Radiation Therapy** *58th Annual Meeting of the American-Society-for-Radiation-Oncology (ASTRO)*
Wu, J., Gensheimer, M. F., Dong, X., Rubin, D. L., Napel, S., Diehn, M., Loo, B. W., Li, R.
ELSEVIER SCIENCE INC.2016: S100–S100
- **Robust Intratumor Partitioning to Identify High-Risk Subregions in Lung Cancer: A Pilot Study.** *International journal of radiation oncology, biology, physics*
Wu, J., Gensheimer, M. F., Dong, X., Rubin, D. L., Napel, S., Diehn, M., Loo, B. W., Li, R.
2016; 95 (5): 1504-1512
- **The impact of audiovisual biofeedback on 4D functional and anatomic imaging: Results of a lung cancer pilot study.** *Radiotherapy and oncology*
Yang, J., Yamamoto, T., Pollock, S., Berger, J., Diehn, M., Graves, E. E., Loo, B. W., Keall, P. J.
2016; 120 (2): 267-272
- **Identification and genetic manipulation of human and mouse oesophageal stem cells.** *Gut*
Jeong, Y., Rhee, H., Martin, S., Klass, D., Lin, Y., Nguyen, L. X., Feng, W., Diehn, M.
2016; 65 (7): 1077-1086
- **Identification and genetic manipulation of human and mouse oesophageal stem cells** *GUT*
Jeong, Y., Rhee, H., Martin, S., Klass, D., Lin, Y., Le Xuan Truong Nguyen, L. X., Feng, W., Diehn, M.
2016; 65 (7): 1077-1086
- **Pre-treatment non-target lung FDG-PET uptake predicts symptomatic radiation pneumonitis following Stereotactic Ablative Radiotherapy (SABR).** *Radiotherapy and oncology*
Chaudhuri, A. A., Binkley, M. S., Rigdon, J., Carter, J. N., Aggarwal, S., Dudley, S. A., Qian, Y., Kumar, K. A., Hara, W. Y., Gensheimer, M., Nair, V. S., Maxim, P. G., Shultz, et al
2016; 119 (3): 454-460
- **SU-D-207B-05: Robust Intra-Tumor Partitioning to Identify High-Risk Subregions for Prognosis in Lung Cancer.** *Medical physics*
Wu, J., Gensheimer, M., Dong, X., Rubin, D., Napel, S., Diehn, M., Loo, B., Li, R.
2016; 43 (6): 3349-?
- **Noninvasive molecular subtyping and risk stratification of DLBCL.**
Scherer, F., Kurtz, D., Newman, A. M., Stehr, H., Craig, A. M., Esfahani, M. S., Lovejoy, A. F., Chabon, J. J., Klass, D. M., Liu, C., Zhou, L., Glover, C., Advani, et al

AMER SOC CLINICAL ONCOLOGY.2016

- **Randomized phase II study of preoperative chemoradiotherapy (CRT) plus /-Panitumumab (P) followed by consolidation chemotherapy (C) in potentially operable locally advanced (stage Ma, N2+) non-small cell lung cancer (LANSCLC): Nrg oncology/RTOG 0839.**
Edelman, M. J., Hu, C., Le, Q., Donington, J., D'Souza, W. D., Dicker, A., Loo, B. W., Gore, E., Videtic, G. M., Evans, N. R., Leach, J., Diehn, M., Feigenberg, et al
AMER SOC CLINICAL ONCOLOGY.2016
- **Integrated digital error suppression for noninvasive detection of circulating tumor DNA in NSCLC.**
Newman, A. M., Lovejoy, A. F., Klass, D. M., Kurtz, D., Chabon, J. J., Scherer, F., Stehr, H., Liu, C., Bratman, S., Say, C., Zhou, L., Carter, J. N., West, et al
AMER SOC CLINICAL ONCOLOGY.2016
- **Inter- and intra-patient heterogeneity of resistance mechanisms to the mutant EGFR selective inhibitor rociletinib.**
Chabon, J., Simmons, A., Newman, A. M., Lovejoy, A. F., Esfahani, M. S., Haringsma, H., Kurtz, D., Stehr, H., Scherer, F., Durkin, K. A., Otterson, G., Purcell, W. T., Camidge, et al
AMER SOC CLINICAL ONCOLOGY.2016
- **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
- **Time course and predictive factors for lung volume reduction following stereotactic ablative radiotherapy (SABR) of lung tumors** *RADIATION ONCOLOGY*
Binkley, M. S., Shrager, J. B., Chaudhuri, A., Popat, R., Maxim, P. G., Shultz, D. B., Diehn, M., Loo, B. W.
2016; 11
- **Dosimetric Factors and Toxicity in Highly Conformal Thoracic Reirradiation.** *International journal of radiation oncology, biology, physics*
Binkley, M. S., Hiniker, S. M., Chaudhuri, A., Maxim, P. G., Diehn, M., Loo, B. W., Shultz, D. B.
2016; 94 (4): 808-815
- **Long-Term Survival of a Patient With Non-Small-Cell Lung Cancer Harboring a V600E Mutation in the BRAF Oncogene.** *Clinical lung cancer*
Myall, N. J., Neal, J. W., Cho-Phan, C. D., Zhou, L. Y., Stehr, H., Zhou, L., Diehn, M., Wakelee, H. A.
2016; 17 (2): e17-21
- **Circulating tumor DNA analysis for liquid biopsies: Current status and future opportunities**
Diehn, M.
AMER ASSOC CANCER RESEARCH.2016
- **Deep sequencing of circulating tumor DNA for personalized lung cancer detection and radiotherapy response monitoring**
Diehn, M.
ELSEVIER SCIENCE INC.2016: S3
- **Time course and predictive factors for lung volume reduction following stereotactic ablative radiotherapy (SABR) of lung tumors.** *Radiation oncology*
Binkley, M. S., Shrager, J. B., Chaudhuri, A., Popat, R., Maxim, P. G., Shultz, D. B., Diehn, M., Loo, B. W.
2016; 11 (1): 40-?
- **Noninvasive Cancer Classification Using Diverse Genomic Features in Circulating Tumor DNA**
Esfahani, M., Newman, A. M., Scherer, F., Tibshirani, R., Diehn, M., Alizadeh, A. A., ACM
ASSOC COMPUTING MACHINERY.2016: 516
- **Noninvasive Genotyping and Assessment of Treatment Response in Diffuse Large B Cell Lymphoma**
Scherer, F., Kurtz, D. M., Newman, A. M., Stehr, H., Liu, C., Zhou, L., Craig, A. M., Chabon, J. J., Lovejoy, A. F., Klass, D. M., Glover, C., Ohgami, R. S., Kunder, et al
AMER SOC HEMATOLOGY.2015
- **Dynamic Noninvasive Genomic Monitoring for Outcome Prediction in Diffuse Large B-Cell Lymphoma**
Kurtz, D. M., Scherer, F., Newman, A. M., Lovejoy, A. F., Klass, D. M., Chabon, J. J., Gambhir, S., Diehn, M., Alizadeh, A. A.
AMER SOC HEMATOLOGY.2015

- **The prognostic landscape of genes and infiltrating immune cells across human cancers**
Gentles, A. J., Newman, A. M., Liu, C., Bratman, S. V., Feng, W., Kim, D., Nair, V. S., Yue, X., Khuong, A., Hoang, C. D., Diehn, M., West, R. B., Plevritis, et al
AMER ASSOC CANCER RESEARCH.2015
- **Anatomic optimization of lung tumor stereotactic ablative radiation therapy.** *Practical radiation oncology*
Yu, A. S., von Eyben, R., Yamamoto, T., Diehn, M., Shultz, D. B., Loo, B. W., Maxim, P. G.
2015; 5 (6): e607-13
- **Analysis of Circulating Tumor DNA in Esophageal Carcinoma Patients Treated With Chemoradiation Therapy**
Klass, D., Newman, A., Lovejoy, A. F., Zhou, L., Stehr, H., Xu, T., He, J., Komaki, R. U., Liao, Z., Maru, D., Alizadeh, A., Lin, S. H., Diehn, et al
ELSEVIER SCIENCE INC.2015: S104–S105
- **A Phase I/II Dose-Escalation Trial of 3-Fraction Stereotactic Radiosurgery (SRS) for Large Resection Cavities of Brain Metastases**
Soltys, S. G., Seiger, K., Modlin, L. A., Gibbs, I. C., Hara, W., Kidd, E. A., Hancock, S. L., Diehn, M., Chang, S. D., Adler, J. R., Harsh, G. R., Li, G., Choi, et al
ELSEVIER SCIENCE INC.2015: S38
- **The VarScan2's SNVs-Near-Indel Filter: Is It Necessary?**
Suarez, C. J., Stehr, H., Fung, E., Kunder, C. A., Ewalt, M. D., Lal, A., Alizadeh, A., Diehn, M., Schrijver, I., Zehnder, J.
ELSEVIER SCIENCE INC.2015: 801
- **Deep sequencing of circulating tumor DNA for personalized cancer detection and monitoring**
Diehn, M.
OXFORD UNIV PRESS.2015: 3
- **Preradiation Therapy Metabolic Tumor Growth Rate Predicts Survival and Progression in Patients With Non-Small Cell Lung Cancer**
Wang, A., Diehn, M., Loo, B. W., von Eyben, R., Graves, E. E., Shultz, D. B., Bazan, J. G.
ELSEVIER SCIENCE INC.2015: E405
- **Imaging Based Parameters Associated With Disease Progression of Early-Stage NSCLC Treated With Surgical Resection**
Wang, A., von Eyben, R., Loo, B. W., Diehn, M., Shrager, J. B., Maxim, P. G., Guo, H. H., Burt, B., Shultz, D. B.
ELSEVIER SCIENCE INC.2015: E414
- **Time Course and Predictive Factors for Lung Volume Reduction Following Stereotactic Ablative Radiation Therapy (SABR) of Lung Tumors**
Binkley, M. S., Shrager, J. B., Chaudhuri, A., Popat, R., Maxim, P. G., Shultz, D. B., Diehn, M., Loo, B. W.
ELSEVIER SCIENCE INC.2015: E424
- **Acceptable Toxicity Is Observed Following Retreatment of Thoracic Malignancies: Dose Volume Toxicity Data for Repeat Radiation Therapy**
Binkley, M. S., Hiniker, S. M., Maxim, P. G., Diehn, M., Loo, B. W., Shultz, D. B.
ELSEVIER SCIENCE INC.2015: E429
- **Regional Failure After Stereotactic Ablative Radiation Therapy for Early-Stage Lung Cancer**
Say, C., Diehn, M., Loo, B. W., Shultz, D. B.
ELSEVIER SCIENCE INC.2015: E437
- **Pretreatment FDG Uptake of Non-Target Lung Tissue is Significantly Associated With Radiation Pneumonitis Following Stereotactic Ablative Radiation Therapy (SABR)**
Chaudhuri, A., Binkley, M. S., Carter, J. N., Aggarwal, S., Maxim, P. G., Shultz, D. B., Diehn, M., Guo, H. H., Loo, B. W.
ELSEVIER SCIENCE INC.2015: S150–S151
- **Outcomes of Modestly Hypofractionated Radiation for Lung Tumors: Pre- and Mid-Treatment Positron Emission Tomography-Computed Tomography Metrics as Prognostic Factors.** *Clinical lung cancer*
Harris, J. P., Chang-Halpenny, C. N., Maxim, P. G., Quon, A., Graves, E. E., Diehn, M., Loo, B. W.
2015; 16 (6): 475-485
- **Predicting Radiotherapy Responses and Treatment Outcomes Through Analysis of Circulating Tumor DNA.** *Seminars in radiation oncology*
Chaudhuri, A. A., Binkley, M. S., Osmundson, E. C., Alizadeh, A. A., Diehn, M.

2015; 25 (4): 305-312

- **Integrating Tumor and Stromal Gene Expression Signatures With Clinical Indices for Survival Stratification of Early-Stage Non-Small Cell Lung Cancer.** *Journal of the National Cancer Institute*
Gentles, A. J., Bratman, S. V., Lee, L. J., Harris, J. P., Feng, W., Nair, R. V., Shultz, D. B., Nair, V. S., Hoang, C. D., West, R. B., Plevritis, S. K., Alizadeh, A. A., Diehn, et al
2015; 107 (10)
- **Integrating Tumor and Stromal Gene Expression Signatures With Clinical Indices for Survival Stratification of Early-Stage Non-Small Cell Lung Cancer.** *Journal of the National Cancer Institute*
Gentles, A. J., Bratman, S. V., Lee, L. J., Harris, J. P., Feng, W., Nair, R. V., Shultz, D. B., Nair, V. S., Hoang, C. D., West, R. B., Plevritis, S. K., Alizadeh, A. A., Diehn, et al
2015; 107 (10)
- **Precision Hypofractionated Radiation Therapy in Poor Performing Patients With Non-Small Cell Lung Cancer: Phase 1 Dose Escalation Trial** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Westover, K. D., Loo, B. W., Gerber, D. E., Iyengar, P., Choy, H., Diehn, M., Hughes, R., Schiller, J., Dowell, J., Wardak, Z., Sher, D., Christie, A., Xie, et al
2015; 93 (1): 72-81
- **Precision Hypofractionated Radiation Therapy in Poor Performing Patients With Non-Small Cell Lung Cancer: Phase 1 Dose Escalation Trial.** *International journal of radiation oncology, biology, physics*
Westover, K. D., Loo, B. W., Gerber, D. E., Iyengar, P., Choy, H., Diehn, M., Hughes, R., Schiller, J., Dowell, J., Wardak, Z., Sher, D., Christie, A., Xie, et al
2015; 93 (1): 72-81
- **Colorectal Histology Is Associated With an Increased Risk of Local Failure in Lung Metastases Treated With Stereotactic Ablative Radiation Therapy** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Binkley, M. S., Trakul, N., Jacobs, L. R., von Eyben, R., Quynh-Thu Le, Q. T., Maxim, P. G., Loo, B. W., Shultz, D. B., Diehn, M.
2015; 92 (5): 1044-1052
- **3D Riesz-wavelet based Covariance descriptors for texture classification of lung nodule tissue in CT.** *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual Conference*
Cirujeda, P., Muller, H., Rubin, D., Aguilera, T. A., Loo, B. W., Diehn, M., Binefa, X., Depeursinge, A.
2015; 2015: 7909-7912
- **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
- **Inhibition of Mouse Breast Tumor-Initiating Cells by Calcitriol and Dietary Vitamin D** *MOLECULAR CANCER THERAPEUTICS*
Jeong, Y., Swami, S., Krishnan, A. V., Williams, J. D., Martin, S., Horst, R. L., Albertelli, M. A., Feldman, B. J., Feldman, D., Diehn, M.
2015; 14 (8): 1951-1961
- **Analysis of Long-Term 4-Dimensional Computed Tomography Regional Ventilation After Radiation Therapy** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
King, M. T., Maxim, P. G., Diehn, M., Loo, B. W., Xing, L.
2015; 92 (3): 683-690
- **Stereotactic ablative radiotherapy (SABR) for treatment of central and ultra-central lung tumors** *LUNG CANCER*
Chaudhuri, A. A., Tang, C., Binkley, M. S., Jin, M., Wynne, J. F., von Eyben, R., Hara, W. Y., Trakul, N., Loo, B. W., Diehn, M.
2015; 89 (1): 50-56
- **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
- **TU-AB-201-06: Evaluation of Electromagnetically Guided High-Dose Rate Brachytherapy for Ablative Treatment of Lung Metastases.** *Medical physics*

- Pinkham, D. W., Shultz, D., Loo, B. W., Sung, A., Diehn, M., Fahimian, B. P.
2015; 42 (6): 3595-?
- **Distinct early response dynamics of circulating tumor DNA and circulating tumor cells during therapy of B-cell NHL.**
Kurtz, D., Scherer, F., Green, M., Khodadoust, M., Klass, D. M., Zhou, L., Krishnan, R., Glover, C., Liu, C., Kong, K. A., Faham, M., Levy, R., Diehn, et al
AMER SOC CLINICAL ONCOLOGY.2015
 - **Pre-treatment circulating tumor DNA as a biomarker for disease burden in diffuse large B cell lymphoma (DLBCL)**
Scherer, F., Kurtz, D., Green, M., Newman, A. M., Klass, D. M., Zhou, L., Krishnan, R., Liu, C., Glover, C., Ohgami, R. S., Hicks, R. J., Keane, C., Kong, et al
AMER SOC CLINICAL ONCOLOGY.2015
 - **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-?
 - **To SABR or Not to SABR? Indications and Contraindications for Stereotactic Ablative Radiotherapy in the Treatment of Early-Stage, Oligometastatic, or Oligoprogressive Non-Small Cell Lung Cancer *SEMINARS IN RADIATION ONCOLOGY***
Shultz, D. B., Diehn, M., Loo, B. W.
2015; 25 (2): 78-86
 - **Noninvasive pulmonary nodule elastometry by CT and deformable image registration. *Radiotherapy and oncology***
Negahdar, M., Fasola, C. E., Yu, A. S., von Eyben, R., Yamamoto, T., Diehn, M., Fleischmann, D., Tian, L., Loo, B. W., Maxim, P. G.
2015; 115 (1): 35-40
 - **To SABR or not to SABR? Indications and contraindications for stereotactic ablative radiotherapy in the treatment of early-stage, oligometastatic, or oligoprogressive non-small cell lung cancer. *Seminars in radiation oncology***
Shultz, D. B., Diehn, M., Loo, B. W.
2015; 25 (2): 78-86
 - **Molecular Determinants of Radiation Response in Non-Small Cell Lung Cancer *SEMINARS IN RADIATION ONCOLOGY***
Yom, S. S., Diehn, M., Raben, D.
2015; 25 (2): 67-77
 - **Noninvasive pulmonary nodule elastometry by CT and deformable image registration *RADIOTHERAPY AND ONCOLOGY***
Negandar, M., Fasola, C. E., Yu, A. S., von Eyben, R., Yamamoto, T., Diehn, M., Fleischmann, D., Tian, L., Loo, B. W., Maxim, P. G.
2015; 115 (1): 35-40
 - **Potential clinical utility of ultrasensitive circulating tumor DNA detection with CAPP-Seq. *Expert review of molecular diagnostics***
Bratman, S. V., Newman, A. M., Alizadeh, A. A., Diehn, M. n.
2015: 1-5
 - **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
 - **Increased Rates of Pneumonitis in Patients Receiving Stereotactic Ablative Radiation Therapy for Central Versus Peripheral Lung Tumors**
Chaudhuri, A., Tang, C., Trakul, N., Wynne, J., Loo, B. W., Diehn, M.
ELSEVIER SCIENCE INC.2014: S78-S79
 - **Noninvasive Pulmonary Nodule Elastometry by CT and Deformable Image Registration**
Negahdar, M., Shultz, D. B., Eyben, R. V., Fasola, C., Yu, A. S., Tian, L., Fleischmann, D., Gable, L., Shan, X., Diehn, M., Loo, B. W., Maxim, P. G.
ELSEVIER SCIENCE INC.2014: S10
 - **Ultrasensitive Detection of Circulating Tumor DNA in Non-Small Cell Lung Cancer by Deep Sequencing**
Diehn, M., Bratman, S. V., Newman, A. M., Neal, J. W., Wakelee, H. A., Merritt, R. E., Shrager, J. B., Loo, B. W., Alizadeh, A.

ELSEVIER SCIENCE INC.2014: S75

- **Galectin-1 Mediates Radiation-Related Lymphopenia and Attenuates NSCLC Radiation Response** *CLINICAL CANCER RESEARCH*
Kuo, P., Bratman, S. V., Shultz, D. B., von Eyben, R., Chan, C., Wang, Z., Say, C., Gupta, A., Loo, B. W., Giaccia, A. J., Koong, A. C., Diehn, M., Quynh-Thu Le, et al
2014; 20 (21): 5558-5569
- **Pulmonary Ventilation Imaging Based on 4-Dimensional Computed Tomography: Comparison With Pulmonary Function Tests and SPECT Ventilation Images** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Yamamoto, T., Kabus, S., Lorenz, C., Mittra, E., Hong, J. C., Chung, M., Eclov, N., To, J., Diehn, M., Loo, B. W., Keall, P. J.
2014; 90 (2): 414-422
- **Pulmonary ventilation imaging based on 4-dimensional computed tomography: comparison with pulmonary function tests and SPECT ventilation images.** *International journal of radiation oncology, biology, physics*
Yamamoto, T., Kabus, S., Lorenz, C., Mittra, E., Hong, J. C., Chung, M., Eclov, N., To, J., Diehn, M., Loo, B. W., Keall, P. J.
2014; 90 (2): 414-422
- **Galectin-1 mediates radiation-related lymphopenia in non-small cell lung cancer and attenuates tumor radiation response**
Kuo, P., Bratman, S., Shultz, D., von Eyben, R., Chan, C., Wang, Z., Say, C., Gupta, A., Loo, B. W., Giaccia, A., Koong, A., Diehn, M., Quynh-Thu Le
AMER ASSOC CANCER RESEARCH.2014
- **Increased rates of radiation pneumonitis in patients receiving stereotactic ablative radiotherapy for central versus peripheral lung tumors**
Chaudhuri, A. A., Tang, C., Trakul, N., Wynne, J., Loo, B., Diehn, M.
AMER ASSOC CANCER RESEARCH.2014
- **Lung Volume Reduction After Stereotactic Ablative Radiation Therapy of Lung Tumors: Potential Application to Emphysema** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Binkley, M. S., Shrager, J. B., Leung, A. N., Popat, R., Trakul, N., Atwood, T. F., Chaudhuri, A., Maxim, P. G., Diehn, M., Loo, B. W.
2014; 90 (1): 216-223
- **Noninvasive Pulmonary Nodule Elastometry by CT and Deformable Image Registration**
Negahdar, M., Shultz, D. B., Eyben, R. V., Fasola, C., Yu, A. S., Tian, L., Fleischmann, D., Gable, L., Shan, X., Diehn, M., Loo, B. W., Maxim, P. G.
ELSEVIER SCIENCE INC.2014: S623–S624
- **Lung volume reduction after stereotactic ablative radiation therapy of lung tumors: potential application to emphysema.** *International journal of radiation oncology, biology, physics*
Binkley, M. S., Shrager, J. B., Leung, A. N., Popat, R., Trakul, N., Atwood, T. F., Chaudhuri, A., Maxim, P. G., Diehn, M., Loo, B. W.
2014; 90 (1): 216-223
- **Circulating Tumor DNA Concentrations Reflect Metabolic Tumor Volume in NSCLC**
Modlin, L. A., Bratman, S. V., Newman, A. M., Eclov, N. W., Neal, J. W., Wakelee, H. A., Shrager, J. B., Loo, B. W., Alizadeh, A. A., Diehn, M.
ELSEVIER SCIENCE INC.2014: S812
- **Circulating Tumor DNA as a Biomarker for Pancreatic Adenocarcinoma**
Osmundson, E., Newman, A. M., Bratman, S. V., Klass, D. M., Zhou, L., Pai, J., Longacre, T. A., Alizadeh, A. A., Koong, A. C., Diehn, M.
ELSEVIER SCIENCE INC.2014: S816–S817
- **Improving The Prognostic Value Of FDG-PET For NSCLC Patients Treated With SABR Using Advanced Computational Modeling**
Li, R., Aguilera, T. A., Shultz, D. B., Rubin, D., Diehn, M., Loo, B. W.
ELSEVIER SCIENCE INC.2014: S7
- **Increased Rates of Pneumonitis in Patients Receiving Stereotactic Ablative Radiation Therapy for Central Versus Peripheral Lung Tumors**
Chaudhuri, A., Tang, C., Trakul, N., Wynne, J., Loo, B. W., Diehn, M.
ELSEVIER SCIENCE INC.2014: S160
- **Vertebral Fractures After Stereotactic Ablative Radiation Therapy of Lung Tumors**
Aguilera, T. A., Trakul, N., Shultz, D., Maxim, P. G., Diehn, M., Loo, B. W.
ELSEVIER SCIENCE INC.2014: S160–S161
- **Factors Contributing to the Use of Intensity Modulated Versus 3D Conformal Radiation Therapy for Stage III Non-Small Cell Lung Cancer: A SEER-Medicare Study**

- Harris, J. P., Loo, B. W., Diehn, M.
ELSEVIER SCIENCE INC.2014: S580
- **First in Human High-Resolution Imaging of Regional Lung Function by Single Energy Xenon CT Compared to Ventilation SPECT**
Negahdar, M., Yamamoto, T., Shultz, D. B., Gable, L., Shan, X., Mittra, E., Diehn, M., Maxim, P. G., Loo, B. W.
ELSEVIER SCIENCE INC.2014: S624
 - **Impact of Optimally-Gated PET on Tumor Localization and Quantification**
Lee, K., Loo, B. W., Diehn, M., Atwood, T. F., Hristov, D. H.
ELSEVIER SCIENCE INC.2014: S795
 - **Neurotrophic factor GDNF promotes survival of salivary stem cells.** *journal of clinical investigation*
Xiao, N., Lin, Y., Cao, H., Sirjani, D., Giaccia, A. J., Koong, A. C., Kong, C. S., Diehn, M., Le, Q.
2014; 124 (8): 3364-3377
 - **Vagal and recurrent laryngeal neuropathy following stereotactic ablative radiation therapy in the chest.** *Practical radiation oncology*
Shultz, D. B., Trakul, N., Maxim, P. G., Diehn, M., Loo, B. W.
2014; 4 (4): 272-278
 - **Feasibility and potential utility of multicomponent exhaled breath analysis for predicting development of radiation pneumonitis after stereotactic ablative radiotherapy.** *Journal of thoracic oncology : official publication of the International Association for the Study of Lung Cancer*
Moré, J. M., Eclow, N. C., Chung, M. P., Wynne, J. F., Shorter, J. H., Nelson, D. D., Hanlon, A. L., Burmeister, R., Banos, P., Maxim, P. G., Loo, B. W., Diehn, M.
2014; 9 (7): 957-64
 - **Targeting Unique Metabolic Properties of Breast Tumor Initiating Cells** *STEM CELLS*
Feng, W., Gentles, A., Nair, R. V., Huang, M., Lin, Y., Lee, C. Y., Cai, S., Scheeren, F. A., Kuo, A. H., Diehn, M.
2014; 32 (7): 1734-1745
 - **Imaging features associated with disease progression after stereotactic ablative radiotherapy for stage I non-small-cell lung cancer.** *Clinical lung cancer*
Shultz, D. B., Trakul, N., Abelson, J. A., Murphy, J. D., Maxim, P. G., Le, Q., Loo, B. W., Diehn, M.
2014; 15 (4): 294-301 e3
 - **Feasibility and Potential Utility of Multicomponent Exhaled Breath Analysis for Predicting Development of Radiation Pneumonitis After Stereotactic Ablative Radiotherapy** *JOURNAL OF THORACIC ONCOLOGY*
More, J. M., Eclow, N. C., Chung, M. P., Wynne, J. F., Shorter, J. H., Nelson, D. D., Hanlon, A. L., Burmeister, R., Banos, P., Maxim, P. G., Loo, B. W., Diehn, M.
2014; 9 (7): 957-964
 - **Novel Lung Ventilation Imaging with Single Energy CT After Single Inhalation of Xenon: Comparison with SPECT Ventilation Images**
Negahdar, M., Yamamoto, T., Shultz, D., Gable, L., Shan, X., Mittra, E., Diehn, M., Loo, B., Maxim, P.
WILEY.2014: 450
 - **The Impact of Audiovisual Biofeedback On Image Quality During 4D Functional and Anatomic Imaging: Results of a Prospective Clinical Trial**
Keall, P., Yang, J., Yamamoto, T., Pollock, S., Diehn, M., Berger, J., Graves, E., Loo, B.
WILEY.2014
 - **Predictive Modeling of Outcome Following SABR for NSCLC Based On Radiomics of FDG-PET Images**
Li, R., Aguilera, T., Shultz, D., Rubin, D., Diehn, M., Loo, B.
WILEY.2014
 - **Noninvasive and ultrasensitive quantitation of circulating tumor DNA by hybrid capture and deep sequencing.**
Bratman, S., Newman, A. M., To, J., Wynne, J. F., Neal, J. W., Wakelee, H. A., Shrager, J. B., Loo, B. W., Diehn, M., Alizadeh, A. A.
AMER SOC CLINICAL ONCOLOGY.2014
 - **Noninvasive monitoring of cellular versus acellular tumor DNA from immunoglobulin genes for DLBCL.**
Kurtz, D., Green, M. R., Bratman, S., Liu, C., Glover, C., Keane, C., Kong, K., Faham, M., Miklos, D., Advani, R. H., Levy, R., Hertzberg, M. S., Gandhi, et al
AMER SOC CLINICAL ONCOLOGY.2014

- **The effect of arm position on the dosimetry of thoracic stereotactic ablative radiation therapy using volumetric modulated arc therapy.** *Practical radiation oncology*
Shultz, D. B., Jang, S. S., Hanlon, A. L., Diehn, M., Loo, B. W., Maxim, P. G.
2014; 4 (3): 192-197
- **A Population-Based Comparative Effectiveness Study of Radiation Therapy Techniques in Stage III Non-Small Cell Lung Cancer.** *International journal of radiation oncology, biology, physics*
Harris, J. P., Murphy, J. D., Hanlon, A. L., Le, Q., Loo, B. W., Diehn, M.
2014; 88 (4): 872-884
- **Erythropoietin promotes breast tumorigenesis through tumor-initiating cell self-renewal** *JOURNAL OF CLINICAL INVESTIGATION*
Zhou, B., Damrauer, J. S., Bailey, S. T., Hadzic, T., Jeong, Y., Clark, K., Fan, C., Murphy, L., Lee, C. Y., Troester, M. A., Miller, C. R., Jin, J., Darr, et al
2014; 124 (2): 553-563
- **Illuminating radiogenomic characteristics of glioblastoma multiforme through integration of MR imaging, messenger RNA expression, and DNA copy number variation.** *Radiology*
Jamshidi, N., Diehn, M., Bredel, M., Kuo, M. D.
2014; 270 (1): 1-2
- **Lung Cancer Stem Cells and Resistance to Radiotherapy** *CANCER STEM CELLS*
Bratman, S. V., Diehn, M., Rajasekhar, V. K.
2014: 173–82
- **Neuregulin Autocrine Signaling Promotes Self-Renewal of Breast Tumor-Initiating Cells by Triggering HER2/HER3 Activation** *CANCER RESEARCH*
Lee, C. Y., Lin, Y., Bratman, S. V., Feng, W., Kuo, A. H., Scheeren, F. A., Engreitz, J. M., Varma, S., West, R. B., Diehn, M.
2014; 74 (1): 341-352
- **Clinical implementation of intrafraction cone beam computed tomography imaging during lung tumor stereotactic ablative radiation therapy.** *International journal of radiation oncology, biology, physics*
Li, R., Han, B., Meng, B., Maxim, P. G., Xing, L., Koong, A. C., Diehn, M., Loo, B. W.
2013; 87 (5): 917-923
- **4D CT lung ventilation images are affected by the 4D CT sorting method.** *Medical physics*
Yamamoto, T., Kabus, S., Lorenz, C., Johnston, E., Maxim, P. G., Diehn, M., Eclov, N., Barquero, C., Loo, B. W., Keall, P. J.
2013; 40 (10): 101907-?
- **Clinical impact of dose overestimation by effective path length calculation in stereotactic ablative radiation therapy of lung tumors** *PRACTICAL RADIATION ONCOLOGY*
Liu, M. B., Eclov, N. W., Trakul, N., Murphy, J., Diehn, M., Le, Q., Dieterich, S., Maxim, P. G., Loo, B. W.
2013; 3 (4): 294–300
- **Noninvasive and Ultrasensitive Quantitation of Circulating Tumor DNA by Hybrid Capture and Deep Sequencing**
Bratman, S. V., Newman, A. M., To, J., Wynne, J. F., Neal, J. W., Wakelee, H., Shrager, J., Loo, B. W., Alizadeh, A. A., Diehn, M.
ELSEVIER SCIENCE INC.2013: S92
- **Performance of PET in Evaluating Local Recurrence After Stereotactic Ablative Radiation Therapy for Early Lung Cancer**
Hiniker, S. M., Modlin, L. A., Harris, J. P., Trakul, N., Quon, A., Maxim, P. G., Graves, E. E., Diehn, M., Loo, B. W.
ELSEVIER SCIENCE INC.2013: S11
- **Validation of Image-Based Biomarkers for Analyzing Long-term Pulmonary Toxicity After Radiation Therapy**
King, M., Diehn, M., Loo, B., Xing, L.
ELSEVIER SCIENCE INC.2013: S96
- **Analysis of Circulating Tumor Cells in Early Stage Non-Small Cell Lung Cancer Patients Treated With Stereotactic Ablative Radiation Therapy**
Wynne, J. F., Modlin, L. A., Fan, A., Tran, T., Schwartz, M., Loo, B. W., Diehn, M.
ELSEVIER SCIENCE INC.2013: S200–S201
- **Prognostic Metrics on Serial PET for Lung Tumors Treated With Hypofractionated Radiation**
Harris, J. P., Chang-Halpenney, C. N., Maxim, P. G., Quon, A., Graves, E. E., Diehn, M., Loo, B. W.

ELSEVIER SCIENCE INC.2013: S511

- **Lung Volume Reduction After Stereotactic Ablative Radiation Therapy of Lung Tumors: Potential Application to Emphysema**
Binkley, M. S., Shrager, J. B., Trakul, N., Leung, A. N., Popat, R., Atwood, T. F., Maxim, P. G., Diehn, M., Loo, B. W.
ELSEVIER SCIENCE INC.2013: S545–S546
- **Novel Imaging Biomarkers in Stage I Non-Small Cell Lung Cancer Treated With Stereotactic Ablative Radiation Therapy**
Aguilera, T. A., Daniel, G. I., Shultz, D. B., Trakul, N., Maxim, P. G., Rubin, D. L., Loo, B. W., Diehn, M.
ELSEVIER SCIENCE INC.2013: S546
- **Stromal Contributions to Radiation Resistance of Breast Cancer Stem Cells**
Bratman, S. V., VanderVorst, K., Feng, W., Diehn, M.
ELSEVIER SCIENCE INC.2013: S633
- **Clinical Implementation of Intrafraction CBCT Imaging During Lung Tumor SABR**
Li, R., Han, B., Meng, B., Maxim, P., Diehn, M., Xing, L., Koong, A., Loo, B.
ELSEVIER SCIENCE INC.2013: S726
- **The Effect of Arm Position on the Dosimetry of Thoracic Stereotactic Ablative Radiation Therapy**
Shultz, D. B., Tang, S. S., Diehn, M., Loo, B. W., Maxim, P.
ELSEVIER SCIENCE INC.2013: S736–S737
- **Clinical impact of dose overestimation by effective path length calculation in stereotactic ablative radiation therapy of lung tumors.** *Practical radiation oncology*
Liu, M. B., Eclov, N. C., Trakul, N., Murphy, J., Diehn, M., Le, Q., Dieterich, S., Maxim, P. G., Loo, B. W.
2013; 3 (4): 294-300
- **Migration of implanted markers for image-guided lung tumor stereotactic ablative radiotherapy.** *Journal of applied clinical medical physics*
Hong, J. C., Eclov, N. C., Yu, Y., Rao, A. K., Dieterich, S., Le, Q., Diehn, M., Sze, D. Y., Loo, B. W., Kothary, N., Maxim, P. G.
2013; 14 (2): 4046-?
- **Migration of implanted markers for image-guided lung tumor stereotactic ablative radiotherapy** *JOURNAL OF APPLIED CLINICAL MEDICAL PHYSICS*
Hong, J. C., Eclov, N. C., Yu, Y., Rao, A. K., Dieterich, S., Quynh-Thu Le, Q. T., Diehn, M., Sze, D. Y., Loo, B. W., Kothary, N., Maxim, P. G.
2013; 14 (2): 77-89
- **The Optimal Use of Radiotherapy in Small Cell Lung Cancer** *JOURNAL OF THE NATIONAL COMPREHENSIVE CANCER NETWORK*
Shultz, D. B., Greco, J. C., Hayman, J., Diehn, M., Loo, B. W.
2013; 11 (1): 107-114
- **Metabolic imaging metrics correlate with survival in early stage lung cancer treated with stereotactic ablative radiotherapy.** *Lung cancer*
Abelson, J. A., Murphy, J. D., Trakul, N., Bazan, J. G., Maxim, P. G., Graves, E. E., Quon, A., Le, Q., Diehn, M., Loo, B. W.
2012; 78 (3): 219-224
- **Metabolic imaging metrics correlate with survival in early stage lung cancer treated with stereotactic ablative radiotherapy** *LUNG CANCER*
Abelson, J. A., Murphy, J. D., Trakul, N., Bazan, J. G., Maxim, P. G., Graves, E. E., Quon, A., Quynh-Thu Le, Q. T., Diehn, M., Loo, B. W.
2012; 78 (3): 219-224
- **Anatomic and Metabolic Predictors of Failure After Stereotactic Ablative Radiation Therapy for Non-small Cell Lung Cancer**
Shultz, D. B., Trakul, N., Abelson, J. A., Murphy, J. D., Lee, Q. T., Loo, B. W., Diehn, M.
ELSEVIER SCIENCE INC.2012: S571–S572
- **Improved Outcomes in Stage I NSCLC Patients Treated in the Stereotactic Ablative Radiation Therapy Era: A Population-based Analysis**
Trakul, N., Murphy, J. D., Loo, B. W., Diehn, M.
ELSEVIER SCIENCE INC.2012: S608
- **Stereotactic Ablative Radiotherapy for Reirradiation of Locally Recurrent Lung Tumors** *JOURNAL OF THORACIC ONCOLOGY*
Trakul, N., Harris, J. P., Le, Q., Hara, W. Y., Maxim, P. G., Loo, B. W., Diehn, M.
2012; 7 (9): 1462-1465

- **Tumor Volume-Adapted Dosing in Stereotactic Ablative Radiotherapy of Lung Tumors** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Trakul, N., Chang, C. N., Harris, J., Chapman, C., Rao, A., Shen, J., Quinlan-Davidson, S., Filion, E. J., Wakelee, H. A., Colevas, A. D., Whyte, R. I., Dieterich, S., Maxim, et al
2012; 84 (1): 231-237
- **Intrafraction Verification of Gated RapidArc by Using Beam-Level Kilovoltage X-Ray Images** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Li, R., Mok, E., Chang, D. T., Daly, M., Loo, B. W., Diehn, M., Quynh-Thu Le, Q. T., Koong, A., Xing, L.
2012; 83 (5): E709-E715
- **Characterizing a new population of adult mouse submandibular gland stem cells**
Xiao, N., Lin, Y., Diehn, M., Quynh-Thu Le
AMER ASSOC CANCER RESEARCH.2012
- **A let-7 signaling pathway targets metastatic genes enriched in tumor initiating cells**
Frankenberger, C. A., Yun, J., Eves, E. M., Diehn, M., Minn, A. J., Rosner, M. R.
AMER ASSOC CANCER RESEARCH.2012
- **RESPONSE TO "STEREOTACTIC ABLATIVE RADIOTHERAPY IN THE FRAMEWORK OF CLASSICAL RADIOBIOLOGY: RESPONSE TO DRS. BROWN, DIEHN, AND LOO." (INT J RADIAT ONCOL BIOL PHYS 2011;79:1599-1600) AND "INFLUENCE OF TUMOR HYPOXIA ON STEREOTACTIC ABLATIVE RADIOTHERAPY (SABR): RESPONSE TO DRS. MAYER AND TIMMERMAN." (INT J RADIATION ONCOL BIOL PHYS 2011;78:1600) REPLY** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Brown, M., Loo, B. W., Diehn, M., Carlson, D. J.
2011; 81 (4): 1194
- **What the Diagnostic Radiologist Needs to Know about Radiation Oncology** *RADIOLOGY*
Terezakis, S. A., Heron, D. E., Lavigne, R. F., Diehn, M., Loo, B. W.
2011; 261 (1): 30-44
- **HIGH RETENTION AND SAFETY OF PERCUTANEOUSLY IMPLANTED ENDOVASCULAR EMBOLIZATION COILS AS FIDUCIAL MARKERS FOR IMAGE-GUIDED STEREOTACTIC ABLATIVE RADIOTHERAPY OF PULMONARY TUMORS** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Hong, J. C., Yu, Y., Rao, A. K., Dieterich, S., Maxim, P. G., Le, Q., Diehn, M., Sze, D. Y., Kothary, N., Loo, B. W.
2011; 81 (1): 85-90
- **CANCER STEM CELLS AND RADIORESISTANCE**
Diehn, M.
LIPPINCOTT WILLIAMS & WILKINS.2011: S166
- **MID-RADIATION THERAPY PET CORRELATES WITH SURVIVAL IN LOCALLY ADVANCED NSCLC**
Loo, B. W., Chang, C., Hong, J., Wakelee, H., Quynh Thu Le, Hara, W. Y., Quon, A., Maxim, P. G., Graves, E. E., Diehn, M., Olson, M.
LIPPINCOTT WILLIAMS & WILKINS.2011: S694-S695
- **Reducing 4D CT artifacts using optimized sorting based on anatomic similarity** *MEDICAL PHYSICS*
Johnston, E., Diehn, M., Murphy, J. D., Loo, B. W., Maxim, P. G.
2011; 38 (5): 2424-2429
- **Tumor Volume as a Potential Imaging-Based Risk-Stratification Factor in Trimodality Therapy for Locally Advanced Non-small Cell Lung Cancer** *JOURNAL OF THORACIC ONCOLOGY*
Kozak, M. M., Murphy, J. D., Schipper, M. L., Donington, J. S., Zhou, L., Whyte, R. I., Shrager, J. B., Hoang, C. D., Bazan, J., Maxim, P. G., Graves, E. E., Diehn, M., Hara, et al
2011; 6 (5): 920-926
- **INFLUENCE OF TUMOR HYPOXIA ON STEREOTACTIC ABLATIVE RADIOTHERAPY (SABR): RESPONSE TO DRS. MEYER AND TIMMERMAN** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Brown, M., Lao, B., Diehn, M., Carlson, D.
2011; 79 (5): 1600
- **Ray-trace Calculation Significantly Overestimates Dose Compared To Monte Carlo Calculation In CyberKnife Stereotactic Ablative Radiotherapy Of Lung Tumors**

- Liu, M. B., Eclov, N., Trakul, N., Diehn, M., Maxim, P. G., Dieterich, S., Loo, B. W.
ELSEVIER SCIENCE INC.2011: S853
- **Mechanisms of Radioresistance in Cancer Stem Cells** *CANCER STEM CELLS IN SOLID TUMORS*
Lee, C., Diehn, M., Allan, A. L.
2011: 345–60
 - **Impact of Audiovisual Biofeedback on 4D PET Image Quality**
Yang, J., Yamamoto, T., Gopalan, S., Cui, G., Diehn, M., Berger, J., Loo, B. W., Graves, E. E., Keall, P. J.
ELSEVIER SCIENCE INC.2011: S831–S832
 - **Impact of Audiovisual Biofeedback on 4D-CT Image Quality**
Yamamoto, T., Gopalan, S., Cui, G., Diehn, M., Berger, J., Loo, B. W., Keall, P. J.
ELSEVIER SCIENCE INC.2011: S841–S842
 - **The Myc Connection: ES Cells and Cancer** *CELL*
Rothenberg, M. E., Clarke, M. F., Diehn, M.
2010; 143 (2): 184-186
 - **STEREOTACTIC ABLATIVE RADIOTHERAPY SHOULD BE COMBINED WITH A HYPOXIC CELL RADIOSENSITIZER** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Brown, J. M., Diehn, M., Loo, B. W.
2010; 78 (2): 323-327
 - **Metastatic Cancer Stem Cells: An Opportunity for Improving Cancer Treatment?** *CELL STEM CELL*
Diehn, M., Majeti, R.
2010; 6 (6): 502-503
 - **Identification, molecular characterization, clinical prognosis, and therapeutic targeting of human bladder tumor-initiating cells** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Chan, K. S., Espinosa, I., Chao, M., Wong, D., Ailles, L., Diehn, M., Gill, H., Presti, J., Chang, H. Y., van de Rijn, M., Shortliffe, L., Weissman, I. L.
2009; 106 (33): 14016-14021
 - **Downregulation of miRNA-200c Links Breast Cancer Stem Cells with Normal Stem Cells** *CELL*
Shimono, Y., Zabala, M., Cho, R. W., Lobo, N., Dalerba, P., Qian, D., Diehn, M., Liu, H., Panula, S. P., Chiao, E., Dirbas, F. M., Somlo, G., Pera, et al
2009; 138 (3): 592-603
 - **Association of reactive oxygen species levels and radioresistance in cancer stem cells** *NATURE*
Diehn, M., Cho, R. W., Lobo, N. A., Kalisky, T., Dorie, M. J., Kulp, A. N., Qian, D., Lam, J. S., Ailles, L. E., Wong, M., Joshua, B., Kaplan, M. J., Wapnir, et al
2009; 458 (7239): 780-U123
 - **Therapeutic Implications of the Cancer Stem Cell Hypothesis** *SEMINARS IN RADIATION ONCOLOGY*
Diehn, M., Cho, R. W., Clarke, M. F.
2009; 19 (2): 78-86
 - **Characterizing metastatic cancer stem cells from human breast cancer**
Liu, H., Qian, D., Lin, J., Lobo, N., Zhang, H., Dalerba, P., Shimono, Y., Diehn, M., Jeffrey, S., Clarke, M.
AMER ASSOC CANCER RESEARCH.2008
 - **Identification of noninvasive imaging surrogates for brain tumor gene-expression modules** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Diehn, M., Nardini, C., Wang, D. S., McGovern, S., Jayaraman, M., Liang, Y., Alclape, K., Cha, S., Kuo, M. D.
2008; 105 (13): 5213-5218
 - **Isolation and molecular characterization of cancer stem cells in MMTV-Wnt-1 murine breast tumors** *STEM CELLS*
Cho, R. W., Wang, X., Diehn, M., Shedden, K., Chen, G. Y., Sherlock, G., Gurney, A., Lewicki, J., Clarke, M. F.
2008; 26 (2): 364-371
 - **Type I collagen is overexpressed in medulloblastoma as a component of tumor microenvironment** *JOURNAL OF NEURO-ONCOLOGY*
Liang, Y., Diehn, M., Bollen, A. W., Israel, M. A., Gupta, N.

2008; 86 (2): 133-141

- **Analyzing the sensitivity of breast cancer stem cells to ionizing radiation and chemotherapy**
Diehn, M., Cho, R., Dorie, M., Kulp, A., Weissman, I. L., Brown, M., Clarke, M. F.
ELSEVIER SCIENCE INC.2007: S38-S39
- **Cancer stem cells and radiotherapy: New insights into tumor radioresistance** *JOURNAL OF THE NATIONAL CANCER INSTITUTE*
Diehn, M., Clarke, M. F.
2006; 98 (24): 1755-1757
- **Cell-type specific gene expression profiles of leukocytes in human peripheral blood** *BMC GENOMICS*
Palmer, C., Diehn, M., Alizadeh, A. A., Brown, P. O.
2006; 7
- **Genome-scale identification of membrane-associated human mRNAs** *PLOS GENETICS*
Diehn, M., Bhattacharya, R., Botstein, D., Brown, P. O.
2006; 2 (1): 39-50
- **Correlative MR imaging with GBM cancer genomics**
Kuo, M., Nardini, C., Cha, S., Diehn, M.
DUKE UNIV PRESS.2005: 399
- **Gene expression profiling reveals molecularly and clinically distinct subtypes of glioblastoma multiforme** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Liang, Y., Diehn, M., Watson, N., Bollen, A. W., Aldape, K. D., Nicholas, M. K., Lamborn, K. R., Berger, M. S., Botstein, D., Brown, P. O., Israel, M. A.
2005; 102 (16): 5814-5819
- **Differential gene expression in anatomical compartments of the human eye** *GENOME BIOLOGY*
Diehn, J. J., Diehn, M., Marmor, M. F., Brown, P. O.
2005; 6 (9)
- **MRI-guided insights into differential gene expression patterns in GBMs based on tumor location**
Kuo, M. D., Nardini, C., Wang, D. S., Cha, S., Diehn, M.
AMER ROENTGEN RAY SOC.2005: 5
- **Genome-scale identification of secreted and membrane-associated tumor markers**
Diehn, M., Bhattacharya, R., Botstein, D., Brown, P. O.
ELSEVIER SCIENCE INC.2005: S458
- **A method for detecting and correcting feature misidentification on expression microarrays** *BMC GENOMICS*
Tu, I. P., Schaner, M., Diehn, M., Sikic, B. I., Brown, P. O., Botstein, D., Fero, M. J.
2004; 5
- **Investigating differential gene expression in anatomical compartments of the human eye using cDNA microarrays**
Diehn, J. J., Diehn, M., Marmor, M. F., Brown, P. O.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2004: U324
- **Presynaptic homeostasis at CNS nerve terminals compensates for lack of a key Ca²⁺ entry pathway** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Piedras-Renteria, E. S., Pyle, J. L., Diehn, M., Glickfeld, L. L., Harata, N. C., Cao, Y. Q., Kavalali, E. T., Brown, P. O., Tsien, R. W.
2004; 101 (10): 3609-3614
- **Gene expression profiles of primary cutaneous T cell lymphoma with focus on CD 30+ anaplastic large cell lymphoma (ALCL): unique clustering pattern of ALCL with extensive limb presentation**
Storz, M. N., Kim, Y. H., van de Rijn, M., Dick, S., Hoppe, R. T., Diehn, M., Kohler, S.
BLACKWELL PUBLISHING INC.2004: A20
- **T cell receptor-independent basal signaling via Erk and Abl kinases suppresses RAG gene expression.** *PLoS biology*
Roose, J. P., Diehn, M., Tomlinson, M. G., Lin, J., Alizadeh, A. A., Botstein, D., Brown, P. O., Weiss, A.
2003; 1 (2): E53-?

- **T cell receptor-independent basal signaling via Erk and Abl kinases suppresses RAG gene expression** *PLOS BIOLOGY*
Roose, J. P., Diehn, M., Tomlinson, M. G., Lin, J., Alizadeh, A. A., Botstein, D., Brown, P. O., Weiss, A.
2003; 1 (2): 271-287
- **Gene expression patterns in ovarian carcinomas** *MOLECULAR BIOLOGY OF THE CELL*
Schaner, M. E., Ross, D. T., Ciaravino, G., Sorlie, T., Troyanskaya, O., Diehn, M., Wang, Y. C., Duran, G. E., Sikic, T. L., Caldeira, S., Skomedal, H., Tu, I. P., Hernandez-Boussard, et al
2003; 14 (11): 4376-4386
- **Individuality and variation in gene expression patterns in human blood** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Whitney, A. R., Diehn, M., Popper, S. J., Alizadeh, A. A., Boldrick, J. C., Relman, D. A., Brown, P. O.
2003; 100 (4): 1896-1901
- **SOURCE: a unified genomic resource of functional annotations, ontologies, and gene expression data** *NUCLEIC ACIDS RESEARCH*
Diehn, M., Sherlock, G., Binkley, G., Jin, H., Matese, J. C., Hernandez-Boussard, T., Rees, C. A., Cherry, J. M., Botstein, D., Brown, P. O., Alizadeh, A. A.
2003; 31 (1): 219-223
- **Caspase-12 expression is markedly reduced in NF-E2(-/-) megakaryocytes and caspase-12(-/-) platelets exhibit a defect in integrin alpha IIb beta 3 inside-out signaling.**
Kerrigan, S. W., Murphy, R. P., Alizadeh, A., Diehn, M., Shattil, S. J., Leavitt, A. D.
AMER SOC HEMATOLOGY.2002: 13A
- **Genomic expression programs and the integration of the CD28 costimulatory signal in T cell activation** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Diehn, M., Alizadeh, A. A., Rando, O. J., Liu, C. L., Stankunas, K., Botstein, D., Crabtree, G. R., Brown, P. O.
2002; 99 (18): 11796-11801
- **Transformation of follicular lymphoma to diffuse large-cell lymphoma: Alternative patterns with increased or decreased expression of c-myc and its regulated genes** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Lossos, I. S., Alizadeh, A. A., Diehn, M., Warnke, R., Thorstenson, Y., Oefner, P. J., Brown, P. O., Botstein, D., Levy, R.
2002; 99 (13): 8886-8891
- **Transcriptional response of human mast cells stimulated via the Fc(epsilon)RI and identification of mast cells as a source of IL-11.** *BMC immunology*
Sayama, K., Diehn, M., Matsuda, K., Lunderius, C., Tsai, M., Tam, S., Botstein, D., Brown, P. O., Galli, S. J.
2002; 3: 5-?
- **Functional genomic analysis of CD4+CD25+ regulatory T cells.**
Seeley, E., Ermann, J., Diehn, M., Fathman, C. G.
ACADEMIC PRESS INC ELSEVIER SCIENCE.2002: S68
- **In vivo regulation of human skeletal muscle gene expression by thyroid hormone** *GENOME RESEARCH*
Clement, K., Viguerie, N., Diehn, M., Alizadeh, A., Barbe, P., Thalamas, C., Storey, J. D., Brown, P. O., Barsh, G. S., Langin, D.
2002; 12 (2): 281-291
- **Stereotyped and specific gene expression programs in human innate immune responses to bacteria** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Boldrick, J. C., Alizadeh, A. A., Diehn, M., Dudoit, S., Liu, C. L., Belcher, C. E., Botstein, D., Staudt, L. M., Brown, P. O., Relman, D. A.
2002; 99 (2): 972-977
- **Transcriptional programs activated by exposure of human prostate cancer cells to androgen** *GENOME BIOLOGY*
DePrimo, S. E., Diehn, M., Nelson, J. B., Reiter, R. E., Matese, J., Fero, M., Tibshirani, R., Brown, P. O., Brooks, J. D.
2002; 3 (7)
- **Higher-grade transformed follicle center lymphomas (FCL): Gene expression profiling comparison to pre-transformed FCL and to de novo diffuse large B-cell lymphomas (DLBCL).**
Lossos, I. S., Alizadeh, A. A., Diehn, M., Warnke, R., Brown, P. O., Botstein, D., Levy, R.
AMER SOC HEMATOLOGY.2001: 722A

- **Genetic approaches using primary megakaryocytes to identify effectors of platelet integrin signaling**
Shattil, S. J., Bertoni, A., Eto, K., Murphy, R., Pampori, N., Shiraga, M., Stuhlmann, H., Tadokoro, S., Kerrigan, S., Alizadeh, A., Diehn, M., Brown, P. O., Leavitt, et al
AMER SOC CELL BIOLOGY.2001: 270A
- **Comparing functional genomic datasets: lessons from DNA. microarray analyses of host-pathogen interactions** *CURRENT OPINION IN MICROBIOLOGY*
Diehn, M., Relman, D. A.
2001; 4 (1): 95-101
- **Examining the living genome in health and disease with DNA microarrays** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Diehn, M., Alizadeh, A. A., Brown, P. O.
2000; 283 (17): 2298-2299
- **Large-scale identification of secreted and membrane-associated gene products using DNA microarrays** *NATURE GENETICS*
Diehn, M., Eisen, M. B., Botstein, D., Brown, P. O.
2000; 25 (1): 58-62
- **Degradation of proteins from the ER of *S-cerevisiae* requires an intact unfolded protein response pathway** *MOLECULAR CELL*
Casagrande, R., Stern, P., Diehn, M., Shamu, C., Osario, M., Zuniga, M., Brown, P. O., Ploegh, H.
2000; 5 (4): 729-735
- **Biochemical interactions integrating I κ B with the T cell receptor-initiated signaling cascade** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Bunnell, S. C., Diehn, M., Yaffe, M. B., Findell, P. R., Cantley, L. C., Berg, L. J.
2000; 275 (3): 2219-2230
- **DNA microarrays as "microscopes" for watching a genome in action**
Brown, P. O., Botstein, D., Alizadeh, A., Derisi, J., Diehn, M., Eisen, M., Iyer, Perou, C., Pollack, J., Ross, D., Spellman, P., Staudt, L.
AMER SOC CELL BIOLOGY.1998: 2A