Stanford

Sylvia K. Plevritis, PhD

William M. Hume Professor in the School of Medicine, Professor of Biomedical Data Science and of Radiology

Department of Biomedical Data Science

CONTACT INFORMATION

- **Administrative Contact**

  Kristiana Cuevas - Executive Administrative Assistant

  Email kcuevas@stanford.edu

Bio

BIO

Dr. Sylvia K. Plevritis is the William M. Hume Professor in the School of Medicine, Professor of Biomedical Data Science and of Radiology and Chair of the Department of Biomedical Data Science at Stanford University. She leads a systems biology cancer research program that bridges multiomic, imaging, clinical and population data to decipher properties of cancer progression and drug response. Dr. Plevritis received her Ph.D. in Electrical Engineering and M.S. in Health Services Research, both from Stanford University, with a focus on cancer imaging physics and modeling cancer outcomes, respectively. She is a fellow of the American Institute for Medical and Biological Engineering (AIMBE) and Distinguished Investigator in the Academy of Radiology Research. Dr. Plevritis has served on numerous NIH study sections, chaired scientific programs for the several professional societies including the American Association for Cancer Research (AACR) and presented keynote lectures across multiple scales of computational cancer biology. She served on NCI Board of Scientific Advisors from 2016-2024. She is actively serving as Associate Director for Cancer AI in the Stanford Cancer Institute.Sylvia Plevritis is the Program Director of the Stanford Center in Cancer Systems Biology (CCSB), and is a Principal Investigator with the NCI Cancer Intervention Surveillance Network (CISNET).

ACADEMIC APPOINTMENTS

- Professor, Department of Biomedical Data Science
- Professor, Radiology
- Member, Bio-X
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Chair, Department of Biomedical Data Science, (2019- present)
- Director, Biomedical Informatics Training Program, (2019- present)
- Associate Director for Cancer AI, Stanford Cancer Institute, (2024- present)

PROFESSIONAL EDUCATION

- M.S., Stanford University , Health Services Research (1996)

- PhD, Stanford University , Electrical Engineering (1992)
- B.E., The Cooper Union , Electrical Engineering (1985)

LINKS

- Plevritis Lab: https://plevritislab.stanford.edu/
- Department of Biomedical Data Science: http://dbds.stanford.edu
- Stanford Center for Cancer Systems Biology: https://ccsb.stanford.edu/about.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research program focuses on computational modeling of cancer biology and cancer outcomes. My laboratory develops stochastic models of the natural history of cancer based on clinical research data. We estimate population-level outcomes under differing screening and treatment interventions. We also analyze genomic and proteomic cancer data in order to identify molecular networks that are perturbed in cancer initiation and progression and relate these perturbations to patient outcomes.

Teaching

COURSES

2024-25

- Translational Bioinformatics: BIOE 217, BIOMEDIN 217, CS 275, GENE 217 (Spr)
- Workshop in Biostatistics: BIODS 260A (Aut)
- Workshop in Biostatistics: BIODS 260B (Win)
- Workshop in Biostatistics: BIODS 260C (Spr)
- Workshop in Biostatistics: STATS 260A (Aut)
- Workshop in Biostatistics: STATS 260B (Win)
- Workshop in Biostatistics: STATS 260C (Spr)

2023-24

- Translational Bioinformatics: BIOE 217, BIOMEDIN 217, CS 275 (Spr)

STANFORD ADVISEES

Med Scholar Project Advisor

Sabrina Qi

Doctoral Dissertation Reader (AC)

Jeremy D'Silva, Timothy Keyes

Postdoctoral Faculty Sponsor

Shahira Abousamra, Dina Hany

Doctoral Dissertation Advisor (AC)

Jake Chang, Ben Viggiano

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Data Science (Phd Program)

- Cancer Biology (Phd Program)

Publications

PUBLICATIONS

- **Lymph node colonization induces tissue remodeling via immunosuppressive fibroblast-myeloid cell niches supporting metastatic tolerance.** *Cancer cell*
  Haist, M., Baertsch, M. A., Reticker-Flynn, N. E., Lu, G., Kempchen, T. N., Chu, P., Vazquez, G., Chen, H., Sunwoo, J. B., Zhang, W., Laseinde, E., Adami, B., Zimmer, et al
  2026

- **Performance of smoking duration-based lung cancer screening eligibility criteria: a comparative modeling study.** *Journal of the National Cancer Institute*
  Cao, P., De Nijs, K., Lee, J., Jeon, J., De Koning, H. J., Plevritis, S. K., Ten Haaf, K., Han, S. S., Meza, R.
  2026

- **The ADAPT learning cancer treatment system: ARPA-H's initiative to revolutionize cancer therapy.** *Cancer cell*
  Bild, A. H., Sangar, M. C., McQuerry, J. A., Ideker, T., Kopetz, S., Carey, L., Nath, A., Marcus, D., Regier, A., Rashid, N., Barzilay, R., Winer, E., Salgia, et al
  2026

- **Spatial transcriptomics reveals tumor-brain expression convergence and identifies prognostic gene signatures in breast cancer brain metastases**
  Garcia, M., Yeh, C., Perez, P., Barisano, G., Vogel, H., West, R., Angelo, M., Tian, L., Plevritis, S., Gephart, M.
  OXFORD UNIV PRESS INC.2025: v465-v466

- **Mathematical Modeling to Address Questions in Breast Cancer Screening: An Overview of the Breast Cancer Models of the Cancer Intervention and Surveillance Modeling Network.** *Journal of breast imaging*
  Alagoz, O., Caswell-Jin, J. L., de Koning, H. J., Huang, H., Huang, X., Lee, S. J., Li, Y., Plevritis, S. K., Sarkar, S., Schechter, C. B., Stout, N. K., Trentham-Dietz, A., van Ravesteyn, et al
  2025

- **A quantitative spatial cell-cell colocalizations framework enabling comparisons between in vitro assembloids and pathological specimens.** *Nature communications*
  Bouchard, G., Zhang, W., Ilerten, I., Li, I., Bhattacharya, A., Li, Y., Trope, W., Shrager, J. B., Kuo, C., Ozawa, M. G., Giaccia, A. J., Tian, L., Plevritis, et al
  2025; 16 (1): 1392

- **Estimation of Cancer Deaths Averted From Prevention, Screening, and Treatment Efforts, 1975-2020.** *JAMA oncology*
  Goddard, K. A., Feuer, E. J., Mandelblatt, J. S., Meza, R., Holford, T. R., Jeon, J., Lansdorp-Vogelaar, I., Gulati, R., Stout, N. K., Howlader, N., Knudsen, A. B., Miller, D., Caswell-Jin, et al
  2024

- **The acid-sensing receptor GPR65 on tumor macrophages drives tumor growth in obesity.** *Science immunology*
  Bagchi, S., Yuan, R., Huang, H. L., Zhang, W., Chiu, D. K., Kim, H., Cha, S. L., Tolentino, L., Lowitz, J., Liu, Y., Moshnikova, A., Andreev, O., Plevritis, et al
  2024; 9 (100): eadg6453

- **Basal-to-inflammatory transition and tumor resistance via crosstalk with a pro-inflammatory stromal niche.** *Nature communications*
  Li, N. Y., Zhang, W., Haensel, D., Jussila, A. R., Pan, C., Gaddam, S., Plevritis, S. K., Oro, A. E.
  2024; 15 (1): 8134

- **Mapping spatial organization and genetic cell-state regulators to target immune evasion in ovarian cancer.** *Nature immunology*
  Yeh, C. Y., Aguirre, K., Laveroni, O., Kim, S., Wang, A., Liang, B., Zhang, X., Han, L. M., Valbuena, R., Bassik, M. C., Kim, Y. M., Plevritis, S. K., Snyder, et al
  2024

- **The Impact of Model Assumptions on Personalized Lung Cancer Screening Recommendations.** *Medical decision making : an international journal of the Society for Medical Decision Making*

Ten Haaf, K., de Nijs, K., Simoni, G., Alban, A., Cao, P., Sun, Z., Yong, J., Jeon, J., Toumazis, I., Han, S. S., Gazelle, G. S., Kong, C. Y., Plevritis, et al

2024: 272989X241249182

- **Collaborative Modeling to Compare Different Breast Cancer Screening Strategies: A Decision Analysis for the US Preventive Services Task Force.** *JAMA*

  Trentham-Dietz, A., Chapman, C. H., Jayasekera, J., Lowry, K. P., Heckman-Stoddard, B. M., Hampton, J. M., Caswell-Jin, J. L., Gangnon, R. E., Lu, Y., Huang, H., Stein, S., Sun, L., Gil Quessep, et al

  2024

- **US Breast Cancer Mortality-Reply.** *JAMA*

  Caswell-Jin, J. L., Kurian, A. W., Plevritis, S. K.

  2024

- **Author Correction: Advances and prospects for the Human BioMolecular Atlas Program (HuBMAP).** *Nature cell biology*

  Jain, S., Pei, L., Spraggins, J. M., Angelo, M., Carson, J. P., Gehlenborg, N., Ginty, F., Goncalves, J. P., Hagood, J. S., Hickey, J. W., Kelleher, N. L., Laurent, L. C., Lin, et al

  2024

- **Analysis of Breast Cancer Mortality in the US-1975 to 2019.** *JAMA*

  Caswell-Jin, J. L., Sun, L. P., Munoz, D., Lu, Y., Li, Y., Huang, H., Hampton, J. M., Song, J., Jayasekera, J., Schechter, C., Alagoz, O., Stout, N. K., Trentham-Dietz, et al

  2024; 331 (3): 233-241

- **Basal-to-inflammatory transition and tumor resistance via crosstalk with a proinflammatory stromal niche** *Nature Communications*

  Li, N. Y., Zhang, W., Haensel, D., Jussila, A., Pan, C., Gaddam, S., Plevritis, S., Oro, A.

  2024; 15

- **CCL8/CCL13-producing tumor-associated macrophages linked to poor outcomes after CAR T cell therapy for LBCL** *American Society of Hematology*

  Mo, K. C., Yeh, C. Y., Hamilton, M. P., Spiegel, J., Desai, M., Ehlinger, Z., Reynolds, W. D., Yang, E., Ozawa, M. G., Chen, Y., Prabhu, S., Frank, M. J., Muffly, et al

  2024

- **Phenotyping EMT and MET cellular states in lung cancer patient liquid biopsies at a personalized level using mass cytometry.** *Scientific reports*

  Karacosta, L. G., Pancirer, D., Preiss, J. S., Benson, J. A., Trope, W., Shrager, J. B., Sung, A. W., Neal, J. W., Bendall, S. C., Wakelee, H., Plevritis, S. K.

  2023; 13 (1): 21781

- **Loss of p53-DREAM-mediated repression of cell cycle genes as a driver of lymph node metastasis in head and neck cancer.** *Genome medicine*

  Brennan, K., Espin-Perez, A., Chang, S., Bedi, N., Saumyaa, S., Shin, J. H., Plevritis, S. K., Gevaert, O., Sunwoo, J. B., Gentles, A. J.

  2023; 15 (1): 98

- **SPATIALLY-RESOLVED TRANSCRIPTOME ANALYSIS OF BRAIN METASTATIC BREAST CANCER REVEAL KEY MEDIATORS OF BRAIN-TROPIC METASTATIC POTENTIAL**

  Umeh-Garcia, M., Godfrey, B., Perez, P., Varma, S., Ahmadian, S., Toland, A., Granucci, M., Averbukh, I., Tian, L., West, R., Angelo, M., Plevritis, S., Gephart, et al

  OXFORD UNIV PRESS INC.2023

- **The colocatome as a spatial -omic reveals shared microenvironment features between tumour-stroma assembloids and human lung cancer.** *bioRxiv : the preprint server for biology*

  Bouchard, G., Zhang, W., Li, I., Ilerten, I., Bhattacharya, A., Li, Y., Trope, W., Shrager, J. B., Kuo, C., Tian, L., Giaccia, A. J., Plevritis, S. K.

  2023

- **p53 governs an AT1 differentiation programme in lung cancer suppression.** *Nature*

  Kaiser, A. M., Gatto, A., Hanson, K. J., Zhao, R. L., Raj, N., Ozawa, M. G., Seoane, J. A., Bieging-Rolett, K. T., Wang, M., Li, I., Trope, W. L., Liou, D. Z., Shrager, et al

  2023

- **Advances and prospects for the Human BioMolecular Atlas Program (HuBMAP).** *Nature cell biology*

Jain, S., Pei, L., Spraggins, J. M., Angelo, M., Carson, J. P., Gehlenborg, N., Ginty, F., Gonçalves, J. P., Hagood, J. S., Hickey, J. W., Kelleher, N. L., Laurent, L. C., Lin, et al

2023

- **Galectin-1 mediates chronic STING activation in tumors to promote metastasis through MDSC recruitment.** *Cancer research*

  Nambiar, D. K., Viswanathan, V., Cao, H., Zhang, W., Guan, L., Chamoli, M., Holmes, B., Kong, C., Hildebrand, R., Koong, A. J., von Eyben, R., Plevritis, S., Li, et al

  2023

- **Organization of the human intestine at single-cell resolution.** *Nature*

  Hickey, J. W., Becker, W. R., Nevins, S. A., Horning, A., Perez, A. E., Zhu, C., Zhu, B., Wei, B., Chiu, R., Chen, D. C., Cotter, D. L., Esplin, E. D., Weimer, et al

  2023; 619 (7970): 572-584

- **Risk Model-Based Lung Cancer Screening : A Cost-Effectiveness Analysis.** *Annals of internal medicine*

  Toumazis, I., Cao, P., de Nijs, K., Bastani, M., Munshi, V., Hemmati, M., Ten Haaf, K., Jeon, J., Tammemägi, M., Gazelle, G. S., Feuer, E. J., Kong, C. Y., Meza, et al

  2023

- **Improved Relapse Prediction in Pediatric Acute Myeloid Leukemia By Deconvolving Lineage-Specific and CancerSpecific Features in Single-Cell Data**

  Keyes, T., Jager, A., Krueger, M., Plevritis, S., Tibshirani, R., Aplenc, R., Nolan, G. P., Redell, M. S., Davis, K. L.

  AMER SOC HEMATOLOGY.2022: 6288-6289

- **Post-infusion CAR T-Reg cells identify patients resistant to CD19-CAR therapy** *NATURE MEDICINE*

  Good, Z., Spiegel, J. Y., Sahaf, B., Malipatlolla, M. B., Ehlinger, Z. J., Kurra, S., Desai, M. H., Reynolds, W. D., Lin, A., Vandris, P., Wu, F., Prabhu, S., Hamilton, et al

  2022

- **Editorial: Artificial Intelligence, machine learning and the changing landscape of molecular biology** *JOURNAL OF MOLECULAR BIOLOGY*

  Zou, J., Li, H., Plevritis, S.

  2022; 434 (15)

- **Editorial: Artificial Intelligence, machine learning and the changing landscape of molecular biology.** *Journal of molecular biology*

  Zou, J., Li, H., Plevritis, S.

  2022: 167712

- **Role of spatially distinct tumor fibroblast in erlotinib resistance**

  Bouchard, G., Plevritis, S. K.

  AMER ASSOC CANCER RESEARCH.2022

- **Role of spatially distinct tumor fibroblast in erlotinib resistance.**

  Bouchard, G., Plevritis, S. K.

  AMER ASSOC CANCER RESEARCH.2022

- **Reverse fate mapping of CD19-targeted CAR T cells in patients with large B-cell lymphoma**

  Good, Z., Hamilton, M. P., Spiegel, J. Y., Kurra, S., Desai, M., Prabhu, S., Yang, E., Ozawa, M. G., Hanson, P. J., Wu, F., Frank, M. J., Baird, J. H., Muffly, et al

  AMER ASSOC CANCER RESEARCH.2022

- **Identification of cell types in multiplexed in situ images by combining protein expression and spatial information using CELESTA.** *Nature methods*

  Zhang, W., Li, I., Reticker-Flynn, N. E., Good, Z., Chang, S., Samusik, N., Saumyaa, S., Li, Y., Zhou, X., Liang, R., Kong, C. S., Le, Q., Gentles, et al

  2022

- **Contributions of screening, early-stage treatment, and metastatic treatment to breast cancer mortality reduction by molecular subtype in US women, 2000-2017.**

  Caswell-Jin, J., Sun, L., Munoz, D., Lu, Y., Li, Y., Huang, H., Hampton, J. M., Song, J., Jayasekera, J., Schechter, C., Alagoz, O., Stout, N. K., Trentham-Dietz, et al

  LIPPINCOTT WILLIAMS & WILKINS.2022

- **Lymph node colonization induces tumor-immune tolerance to promote distant metastasis.** *Cell*
  Reticker-Flynn, N. E., Zhang, W., Belk, J. A., Basto, P. A., Escalante, N. K., Pilarowski, G. O., Bejnood, A., Martins, M. M., Kenkel, J. A., Linde, I. L., Bagchi, S., Yuan, R., Chang, et al
  2022

- **Visualization, benchmarking and characterization of nested single-cell heterogeneity as dynamic forest mixtures.** *Briefings in bioinformatics*
  Anchang, B., Mendez-Giraldez, R., Xu, X., Archer, T. K., Chen, Q., Hu, G., Plevritis, S. K., Motsinger-Reif, A. A., Li, J.
  2022

- **Reconstructing codependent cellular cross-talk in lung adenocarcinoma using REMI.** *Science advances*
  Yu, A., Li, Y., Li, I., Ozawa, M. G., Yeh, C., Chiou, A. E., Trope, W. L., Taylor, J., Shrager, J., Plevritis, S. K.
  2022; 8 (11): eabi4757

- **A Dataset Generation Framework for Evaluating Megapixel Image Classifiers and Their Explanations**
  Machiraju, G., Plevritis, S., Mallick, P.
  edited by Avidan, S., Brostow, G., Cisse, M., Farinella, G. M., Hassner, T.
  SPRINGER INTERNATIONAL PUBLISHING AG.2022: 422-442

- **Multi-omics analysis of spatially distinct stromal cells reveals tumor-induced O-glycosylation of the CDK4-pRB axis in fibroblasts at the invasive tumor edge.** *Cancer research*
  Bouchard, G., Garcia-Marques, F. J., Karacosta, L. G., Zhang, W., Bermudez, A., Riley, N. M., Varma, S., Mehl, L. C., Benson, J. A., Shrager, J. B., Bertozzi, C. R., Pitteri, S. J., Giaccia, et al
  2021

- **A Cost-Effectiveness Analysis of Lung Cancer Screening With Low-Dose Computed Tomography and a Diagnostic Biomarker.** *JNCI cancer spectrum*
  Toumazis, I., Erdogan, S. A., Bastani, M., Leung, A., Plevritis, S. K.
  2021; 5 (6): pkab081

- **Cost-effectiveness Evaluation of the 2021 US Preventive Services Task Force Recommendation for Lung Cancer Screening.** *JAMA oncology*
  Toumazis, I., de Nijs, K., Cao, P., Bastani, M., Munshi, V., Ten Haaf, K., Jeon, J., Gazelle, G. S., Feuer, E. J., de Koning, H. J., Meza, R., Kong, C. Y., Han, et al
  2021

- **Evaluation of Alternative Diagnostic Follow-up Intervals for Lung Reporting and Data System Criteria on the Effectiveness of Lung Cancer Screening.** *Journal of the American College of Radiology : JACR*
  Bastani, M., Toumazis, I., Hedou', J., Leung, A., Plevritis, S. K.
  2021

- **Reflecting on 20 years of breast cancer modeling in CISNET: Recommendations for future cancer systems modeling efforts.** *PLoS computational biology*
  Trentham-Dietz, A., Alagoz, O., Chapman, C., Huang, X., Jayasekera, J., van Ravesteyn, N. T., Lee, S. J., Schechter, C. B., Yeh, J. M., Plevritis, S. K., Mandelblatt, J. S., Breast Working Group of the Cancer Intervention and Surveillance Modeling Network (CISNET)
  2021; 17 (6): e1009020

- **Evaluation of the Benefits and Harms of Lung Cancer Screening With Low-Dose Computed Tomography: Modeling Study for the US Preventive Services Task Force.** *JAMA*
  Meza, R., Jeon, J., Toumazis, I., Ten Haaf, K., Cao, P., Bastani, M., Han, S. S., Blom, E. F., Jonas, D. E., Feuer, E. J., Plevritis, S. K., de Koning, H. J., Kong, et al
  2021; 325 (10): 988–97

- **A risk-based framework for assessing real-time lung cancer screening eligibility that incorporates life expectancy and past screening findings.** *Cancer*
  Toumazis, I., Alagoz, O., Leung, A., Plevritis, S. K.
  2021

- **Systems biology for investigating drug resistance mechanism of melanoma**
  Su, Y., Li, G., Ko, M., Cheng, H., Zhu, R., Xue, M., Robert, L., Levine, R., Ribas, A., Nolan, G., Wei, W., Plevritis, S., Baltimore, et al
  AMER ASSOC CANCER RESEARCH.2020

- **Lymph node colonization promotes distant tumor metastasis through the induction of tumor-specific immunosuppression**
  Reticker-Flynn, N. E., Basto, P. A., Zhang, W., Martins, M. M., Chang, S., Gentles, A. J., Sunwoo, J. B., Plevritis, S. K., Engleman, E. G.
  AMER ASSOC CANCER RESEARCH.2020
- **Risk-Based lung cancer screening: A systematic review.** *Lung cancer (Amsterdam, Netherlands)*
  Toumazis, I., Bastani, M., Han, S. S., Plevritis, S. K.
  2020; 147: 154–86
- **Lymph node colonization promotes distant tumor metastasis through the induction of tumor-specific immunosuppression.**
  Reticker-Flynn, N. E., Basto, P. A., Zhang, W., Bejnood, A., Kenkel, J. A., Martins, M. M., Chang, S., Gentles, A. J., Sunwoo, J. B., Plevritis, S. K., Engleman, E. G.
  AMER ASSOC CANCER RESEARCH.2020: 25–26
- **Disparities of national lung cancer screening guidelines in the U.S. population.** *Journal of the National Cancer Institute*
  Han, S. S., Chow, E., Ten Haaf, K., Toumazis, I., Cao, P., Bastani, M., Tammemagi, M., Jeon, J., Feuer, E., Meza, R., Plevritis, S.
  2020
- **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., Bejnood, A. n., Forgó, E. n., Varma, S. n., Xu, et al
  2020; 21 (1): 107
- **Multi-omic single-cell snapshots reveal multiple independent trajectories to drug tolerance in a melanoma cell line.** *Nature communications*
  Su, Y. n., Ko, M. E., Cheng, H. n., Zhu, R. n., Xue, M. n., Wang, J. n., Lee, J. W., Frankiw, L. n., Xu, A. n., Wong, S. n., Robert, L. n., Takata, K. n., Yuan, et al
  2020; 11 (1): 2345
- **Cost-Effectiveness Analysis of Lung Cancer Screening in the United States.** *Annals of internal medicine*
  Criss, S. D., de Koning, H. J., Plevritis, S. K., Meza, R. n., Kong, C. Y.
  2020; 172 (10): 706–7
- **TRAIL-induced variation of cell signaling states provides nonheritable resistance to apoptosis.** *Life science alliance*
  Baskar, R., Fienberg, H. G., Khair, Z., Favaro, P., Kimmey, S., Green, D. R., Nolan, G. P., Plevritis, S., Bendall, S. C.
  2019; 2 (6)
- **Precision Medicine in Pancreatic Disease-Knowledge Gaps and Research Opportunities: Summary of a National Institute of Diabetes and Digestive and Kidney Diseases Workshop.** *Pancreas*
  Lowe, M. E., Andersen, D. K., Caprioli, R. M., Choudhary, J., Cruz-Monserrate, Z., Dasyam, A. K., Forsmark, C. E., Gorelick, F. S., Gray, J. W., Haupt, M., Kelly, K. A., Olive, K. P., Plevritis, et al
  2019; 48 (10): 1250–58
- **The human body at cellular resolution: the NIH Human Biomolecular Atlas Program** *NATURE*
  Snyder, M. P., Lin, S., Posgai, A., Atkinson, M., Regev, A., Rood, J., Rozenblatt-Rosen, O., Gaffney, L., Hupalowska, A., Satija, R., Gehlenborg, N., Shendure, J., Laskin, et al
  2019; 574 (7777): 187–92
- **Cost-Effectiveness Analysis of Lung Cancer Screening Accounting for the Effect of Indeterminate Findings** *JNCI CANCER SPECTRUM*
  Toumazis, I., Tsai, E. B., Erdogan, S., Han, S. S., Wan, W., Leung, A., Plevritis, S. K.
  2019; 3 (3)
- **Cost-Effectiveness Analysis of Lung Cancer Screening Accounting for the Effect of Indeterminate Findings.** *JNCI cancer spectrum*
  Toumazis, I., Tsai, E. B., Erdogan, S. A., Han, S. S., Wan, W., Leung, A., Plevritis, S. K.
  2019; 3 (3): pkz035
- **Lymph node colonization promotes distant tumor metastasis through the induction of systemic immune tolerance**
  Reticker-Flynn, N. E., Martins, M. M., Basto, P. A., Zhang, W., Bejnood, A., Gentles, A. J., Sunwoo, J. B., Plevritis, S. K., Engleman, E. G.
  AMER ASSOC CANCER RESEARCH.2019
- **Community assessment to advance computational prediction of cancer drug combinations in a pharmacogenomic screen** *NATURE COMMUNICATIONS*

Menden, M. P., Wang, D., Mason, M. J., Szalai, B., Bulusu, K. C., Guan, Y., Yu, T., Kang, J., Jeon, M., Wolfinger, R., Nguyen, T., Zaslavskiy, M., Jang, et al
2019; 10: 2674

- **Sparse discriminative latent characteristics for predicting cancer drug sensitivity from genomic features.** *PLoS computational biology*
  Knowles, D. A., Bouchard, G., Plevritis, S.
  2019; 15 (5): e1006743

- **Cost-Effectiveness Analysis of Lung Cancer Screening in the United States: A Comparative Modeling Study.** *Annals of internal medicine*
  Criss, S. D., Cao, P. n., Bastani, M. n., Ten Haaf, K. n., Chen, Y. n., Sheehan, D. F., Blom, E. F., Toumazis, I. n., Jeon, J. n., de Koning, H. J., Plevritis, S. K., Meza, R. n., Kong, et al
  2019

- **A comparative modeling analysis of risk-based lung cancer screening strategies.** *Journal of the National Cancer Institute*
  Ten Haaf, K. n., Bastani, M. n., Cao, P. n., Jeon, J. n., Toumazis, I. n., Han, S. S., Plevritis, S. K., Blom, E. F., Kong, C. Y., Tammemägi, M. C., Feuer, E. J., Meza, R. n., de Koning, et al
  2019

- **Mapping lung cancer epithelial-mesenchymal transition states and trajectories with single-cell resolution.** *Nature communications*
  Karacosta, L. G., Anchang, B. n., Ignatiadis, N. n., Kimmey, S. C., Benson, J. A., Shrager, J. B., Tibshirani, R. n., Bendall, S. C., Plevritis, S. K.
  2019; 10 (1): 5587

- **Change in Survival in Metastatic Breast Cancer with Treatment Advances: Meta-Analysis and Systematic Review.** *JNCI cancer spectrum*
  Caswell-Jin, J. L., Plevritis, S. K., Tian, L., Cadham, C. J., Xu, C., Stout, N. K., Sledge, G. W., Mandelblatt, J. S., Kurian, A. W.
  2018; 2 (4): pky062

- **A radiogenomic dataset of non-small cell lung cancer** *SCIENTIFIC DATA*
  Bakr, S., Gevaert, O., Echegaray, S., Ayers, K., Zhou, M., Shafiq, M., Zheng, H., Benson, J., Zhang, W., Leung, A. N. C., Kadoch, M., Hoang, C. D., Shrager, et al
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