Stanford

James D. Brooks

Keith and Jan Hurlbut Professor

Urology

CLINICAL OFFICE (PRIMARY)

- **Uro-Oncology Clinic**

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  Stanford, CA 94305

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Bio

CLINICAL FOCUS

- Cancer > Urologic Oncology
- Prostate cancer screening
- Prostate cancer - localized
- Prostate cancer active surveillance
- Urology

ACADEMIC APPOINTMENTS

- Professor, Urology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Director, U54 Stanford O'Brien Urology Research Center, (2021- present)
- Co-Chair, Molecular and Cellular Characterization Centers NCI, (2015-2017)
- Nominating Committee, Society of Basic Urologic Research, (2015-2017)
- Vice Chair, Department of Urology, (2014- present)
- Associate Dean, Academic Affairs, Stanford University School of Medicine, (2013-2019)
- Chief, Urologic Oncology, Department of Urology, (2012- present)
- Acting Chair, Department of Urology, (2012-2012)
- Editorial Board, Andrology, (2011- present)
- Associate Chair, Prostate Cancer Working Group EDRN, (2010-2015)

- Editorial Board, Prostate Cancer, (2010-2015)
- Editor-in-Chief, The Open Prostate Cancer Journal, (2008-2015)
- Membership Committee, Society for Basic Urologic Research, (2004-2008)
- Editorial Board, The Prostate, (2000- present)

HONORS AND AWARDS

- Dornier Research Scholar, American Foundation for Urologic Disease (1995-1997)
- Clinician Scientist Award, Doris Duke Foundation (1998-2002)
- Eugene P. Schonfeld Medical Research Award, Kidney Cancer Association (2000-2002)
- Leutje-Stubbs Faculty Scholar, Stanford University School of Medicine (2002-2003)
- Best Doctors in America, Best Doctors Inc. (2004-2013)
- Listing in Guide to America's Top Surgeons, Consumers' Research Council (2010)
- Keith and Jan Hurlbut Professor, Stanford University (2012)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Executive Member, Society for Basic Urologic Research (2021 - present)

PROFESSIONAL EDUCATION

- Internship: Johns Hopkins University Surgery Program (1990) MD
- Medical Education: Stanford University School of Medicine (1988) CA
- Fellowship: Johns Hopkins University School of Medicine (1997) MD
- Residency: Johns Hopkins University School of Medicine (1994) MD
- Board Recertification, Urology , American Board of Urology (2017)
- Board Certification: Urology, American Board of Urology (2000)
- A. B., University of Chicago , Biology (1982)

LINKS

- U54 Stanford O'Brien Urology Research Center: https://med.stanford.edu/obrienurology.html
- Stanford Center for Urologic Genomics: http://med.stanford.edu/urologicgenomics.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our interest is in developing diagnostic and prognostic markers for urological diseases. Our work spans discovery, measurement methodologies, and clinical validation of candidate biomarkers. We have primarily used genomic and proteomic approaches for biomarker discovery. While our primary focus has been in prostate cancer, we have also worked in kidney cancer and other malignancies. We are also working to characterize the functional roles of several of the candidate biomarkers in cancer. In the past several years our work has expanded into benign urologic diseases including benign prostatic hyperplasia, obstructive nephropathy, and androgen insensitivity syndrome. In collaboration with bioengineers and radiologists, we have active research in molecular imaging, and protein and nucleotide detection on biological samples. We also participate in several large clinical trials for development, validation and implementation of clinical biomarkers in prostate cancer.

CLINICAL TRIALS

- Prostate Active Surveillance Study, Recruiting
- Prostate Cancer Upgrading Reference Set, Recruiting

- A Pilot Trial Using BR55 Ultrasound Contrast Agent in the Assessment of Prostate Cancer, Not Recruiting
- Microarray Analysis of Gene Expression in Prostate Tissues, Not Recruiting
- Perfusion CT Monitoring to Predict Treatment Efficacy in Renal Cell Carcinoma, Not Recruiting
- Imaging During Surgery in Diagnosing Patients With Prostate, Bladder, or Kidney Cancer, Not Specified

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

William Shi

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (PhD Program)

Publications

PUBLICATIONS

- **Deep-IMMA: an Interpretable Immune-Aware Multimodal Deep Representation Learning for Cancer Prognosis and Recurrence Prediction**
  Jung, K., Rout, S., Qiu, J., Cho, S., McDonough, E., Ghose, S., Chadwick, C., West, R., Brooks, J. D., Ginty, F., Mallick, P., Jadhav, K., Machiraju, et al
  edited by Yang, G., Adeli, E., DeBruijne, M., Papiez, B. W., Speidel, S., Tiwari, P., Zheng, G., Yaqub, M., Dou, Q., Rekik
  SPRINGER INTERNATIONAL PUBLISHING AG.2027: 183-193
- **Molecular analysis of matched PIN, prostate cancer, and adjacent normal prostate tissue reveals distinct transcriptional signatures and recurrent genomic alterations.** *The Journal of pathology*
  Strand, S. H., Eminaga, O., Kunder, C. A., Rasmussen, M., Qin, X., Rogers, L. W., Vennam, S., Zhu, C., Wang, J., Nolley, R., Varma, S., Kristensen, G. H., Roeder, et al
  2026
- **Deep Intact Glycoproteomic Analysis Reveals Multi-Level Glycosylation Heterogeneity in Renal Tumors.** *Molecular & cellular proteomics : MCP*
  Garcia-Marques, F. J., Kapp, K. L., Bermudez, A., Wen, R. M., Edward W Marti, G., Rubin, J. B., Zhao, H., Brooks, J. D., Pitteri, S. J.
  2026: 101685
- **Transcriptomic analysis uncovers dysregulated glycosylation pathways in clear cell renal cell carcinoma.** *The Journal of biological chemistry*
  Wen, R. M., Marti, G. E., Nolley, R., Lam, N., Zhao, H., Peehl, D. M., Brooks, J. D.
  2026: 113620
- **AZGP1 deficiency promotes chronic kidney fibrosis in aging mice.** *American journal of clinical and experimental urology*
  Wen, R. M., Peterson, E. E., Brooks, J. D.
  2026; 14 (4): 106-111
- **Active surveillance and trajectories of decision-making among patients with low-risk prostate cancer** *FRONTIERS IN HUMAN DYNAMICS*
  Guan, A., McGuire, V., Lichtensztajn, D. Y., Mukand, N. H., Brooks, J., Leppert, J., DeRouen, M. C., Frosch, D. L., Santiago-Rodriguez, E. J., Lu, Q., Shim, J. K., Allen, L., Sieh, et al
  2026; 8
- **Tumor immune cell targeting chimeras reprogram tumor-associated macrophages.** *Nature chemical biology*
  Morimoto, M., Roberts, D. S., Wen, R. M., Handy, E., Peterson, E. E., Stepek, G. M., Till, N. A., Brooks, J. D., Bertozzi, C. R.
  2026
- **A Simple Cell Culture Assay for Human Prostatic Branching Morphogenesis Spotlights Bone Morphogenetic Protein Signaling as a Therapeutic Target in Benign Prostatic Hyperplasia.** *The Prostate*
  Pollack, A. S., Brooks, J. D., Pollack, J. R.
  2026

- **Multi-Scale Tri-Modal Histology Dataset Integrating Tumor Morphology, Immune Patterns, and Clinical Outcomes.** *bioRxiv : the preprint server for biology*
  Jung, K. J., Qiu, J., Cho, S., McDonough, E., Chadwick, C., Ghose, S., West, R., Brooks, J. D., Ginty, F., Machiraju, R., Mallick, P.
  2026

- **Erratum to "Establishing and characterizing the molecular profiles, cellular features, and clinical utility of a patient-derived xenograft model using benign prostatic tissues" (Lab Invest 2024 Oct;104(10):102129).** *Laboratory investigation; a journal of technical methods and pathology*
  Polasko, A. L., Zhang, D., Ramraj, A., Chiu, C. L., Garcia-Marques, F. J., Bermudez, A., Kapp, K., Peterson, E., Qiu, Z., Pollack, A. S., Zhao, H., Pollack, J. R., Pitteri, et al
  2026; 106 (2): 104275

- **Identification of serum protein biomarkers for clear cell renal cell carcinoma using patient-derived xenografts.** *The Journal of clinical investigation*
  Zhang, D., Chiu, C., Garcia Marques, F. J., Bermudez, A., Hoerner, C. R., Hadi, N., Wang, E., Metzner, T. J., Trabanino, L., Leppert, J. T., Zhao, H., Tibshirani, R., Fan, et al
  2026; 136 (1)

- **CDC7 is a targetable regulator of advanced prostate cancer.** *Scientific reports*
  Hartono, A. B., Hwang, H., Paparaju, S., Liu, S., Brooks, J. D., Corey, E., Stoyanova, T.
  2025

- **Annotation-Free Prediction of Cancer Cells and Glands and Spatial Analysis of Immune Cells.** *bioRxiv : the preprint server for biology*
  Jung, K. J., Ghose, S., Cho, S., McDonough, E., Chadwick, C., West, R., Brooks, J. D., Chung, D., Ginty, F., Machiraju, R., Mallick, P.
  2025

- **CRISPR screen reveal that FXYD5 is a potential ligand for Siglec-7**
  Wen, R., Marti, G. W., Qiu, Z., Lam, N., Peterson, E. E., Fang, Z., Lyu, A., Zhao, H., Peehl, D. M., Fong, L., Pitteri, S., Brooks, J. D.
  OXFORD UNIV PRESS.2025

- **FTO inhibition attenuates renal fibrosis by downregulating ferroptosis activator ACSL4 and profibrotic factor TGFBI.** *iScience*
  Zhang, D., Chiu, C. L., Wen, R., Qiu, Z., Garcia-Marques, F., Bermudez, A., Zhao, M., Zhao, H., Dixon, S. J., Peehl, D. M., Rankin, E. B., Pitteri, S., Brooks, et al
  2025; 28 (10): 113515

- **In reply to: 'Prostate cancer with favorable histology is not synonymous with prostate cancer indolence'.** *Histopathology*
  McKenney, J. K., Brooks, J. D., Nguyen, J. K., Ding, C. K., Newcomb, L. F., Myles, J. L., Alaghehbandan, R., Przybycin, C. G., Chan, E., Simko, J. P., Greenland, N. Y., Schwen, Z., Weight, et al
  2025

- **FTO inhibition attenuates renal fibrosis by downregulating ferroptosis activator ACSL4 and profibrotic factor TGFBI** *ISCIENCE*
  Zhang, D., Chiu, C., Wen, R., Qiu, Z., Garcia-Marques, F., Bermudez, A., Zhao, M., Zhao, H., Dixon, S. J., Peehl, D. M., Rankin, E. B., Pitteri, S., Brooks, et al
  2025; 28 (10)

- **Extracellular Domain Shedding of TROP2 Activates EGFR Signaling to Drive Prostate Cancer Metastasis.** *Cancer research*
  Liu, S., Hsu, E. C., Aslan, M., Garcia-Marques, F., Shen, M., Hartono, A. B., Solano, F., Le, K., Hwang, H., Lee, C. S., Bermudez, A., Nolley, R., Peehl, et al
  2025

- **Extracellular Vesicles in Serum Carry Trop2 Protein as a Potential Molecular Indicator in Prostate Cancer.** *Journal of extracellular biology*
  Sinawang, P. D., Ozen, M. O., Liu, S., Hsu, E. C., Akin, D., Ding, E., Nolley, R., Brooks, J. D., Stoyanova, T., Demirci, U.
  2025; 4 (9): e70083

- **The RNA demethylase FTO promotes glutamine metabolism in clear cell renal cell carcinoma through the regulation of SLC1A5.** *Science advances*
  Zhao, M., Zhang, D., Jiang, H., Kuganesan, N., Natarajan, S., Pu, L., Thakkar, K. N., Zhao, H., Le, Q. T., Giaccia, A. J., Brooks, J. D., Peehl, D. M., Ye, et al
  2025; 11 (25): eadv2417

- **Magnetic Resonance Imaging at second surveillance biopsy after diagnosis in patients with Grade Group 1 prostate cancer in the Canary Prostate Active Surveillance Study.** *The Journal of urology*

Chappidi, M. R., Newcomb, L. F., Zheng, Y., Liu, M., Schenk, J. M., Zhu, K., de la Calle, C. M., Brooks, J. D., Carroll, P. R., Dash, A., Filson, C. P., Gleave, M. E., Liss, et al
2025: 101097JU0000000000004592

- **Associations Between Prostate Cancer and Dementia: A Nationwide Study in Sweden.** *European urology oncology*
  Crump, C., Stattin, P., Brooks, J. D., Sundquist, J., Wei, J., Sieh, W., Sundquist, K.
  2025
- **Identification of Molecular Subtypes of Clear-Cell Renal Cell Carcinoma in Patient-Derived Xenografts Using Multi-Omics.** *Cancers*
  Qiu, Z., Zhang, D., Garcia-Marques, F. J., Bermudez, A., Zhao, H., Peehl, D. M., Pitteri, S. J., Brooks, J. D.
  2025; 17 (8)
- **Immune repertoire profiling uncovers pervasive T-cell clonal expansions in benign prostatic hyperplasia.** *The Journal of clinical investigation*
  Pollack, A. S., Kunder, C. A., Ho, C. C., Chou, J., Pollack, A. J., Geisick, R. L., Zhang, B. M., West, R. B., Brooks, J. D., Pollack, J. R.
  2025
- **The olfactory receptor OR51E2 regulates prostate cancer aggressiveness and modulates STAT3 in prostate cancer cells and in xenograft tumors.** *BMC cancer*
  Thomsen, M. T., Busk, M., Zhang, D., Chiu, C. L., Zhao, H., Garcia-Marques, F. J., Bermudez, A., Pitteri, S., Borre, M., Brooks, J. D., Nyengaard, J. R.
  2025; 25 (1): 535
- **p53 Expression is Associated with Recurrence-Free Survival in Prostate Cancer: Interaction with PTEN**
  Abadchi, S., Hawley, S., Auman, H., Brooks, J., Lotan, T.
  ELSEVIER SCIENCE INC.2025: 90-91
- **Intact Glycopeptide Analysis of Human Prostate Tissue Reveals Site-Specific Heterogeneity of Protein Glycosylation in Prostate Cancer.** *Glycobiology*
  Kapp, K. L., Garcia-Marques, F., Totten, S. M., Bermudez, A., Tanimoto, C., Brooks, J. D., Pitteri, S. J.
  2025
- **Targeting AXL inhibits the growth and metastasis of prostate cancer in bone.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
  Chiu, C. L., Zhang, D., Zhao, H., Wei, Y., Polasko, A. L., Thomsen, M. T., Yang, V., Yang, K. K., Hauck, S., Peterson, E. E., Wen, R. M., Qiu, Z., Corey, et al
  2025
- **Extracellular Vesicles in Serum Carry Trop2 Protein as a Potential Molecular Indicator in Prostate Cancer** *Journal of Extracellular Biology*
  Sinawang, P. D., Ozen, M. O., Liu, S., Hsu, E., Akin, D., Ding, E., Nolley, R., Brooks, J. D., Stoyanova, T., Demirci, U.
  2025; 4 (9)
- **Aggressiveness classification of clear cell renal cell carcinoma using registration-independent radiology-pathology correlation learning.** *Medical physics*
  Bhattacharya, I., Stacke, K., Chan, E., Lee, J. H., Tse, J. R., Liang, T., Brooks, J. D., Sonn, G. A., Rusu, M.
  2024
- **Sialylated glycoproteins suppress immune cell killing by binding to Siglec-7 and Siglec-9 in prostate cancer.** *The Journal of clinical investigation*
  Wen, R. M., Stark, J. C., Marti, G. E., Fan, Z., Lyu, A., Garcia Marques, F. J., Zhang, X., Riley, N. M., Totten, S. M., Bermudez, A., Nolley, R., Zhao, H., Fong, et al
  2024
- **Stockholm3 in a Multiethnic Cohort: Optimizing Prostate Cancer Screening to Reduce Harm and Improve Equity.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
  Brooks, J. D.
  2024: JCO2400941
- **Risk of Anxiety Disorders in Men With Prostate Cancer: A National Cohort Study.** *JNCI cancer spectrum*
  Crump, C., Stattin, P., Brooks, J. D., Sundquist, J., Sundquist, K., Sieh, W.
  2024

- **Incidence and pitfalls of adipose tissue encountered in prostatic transurethral resections and related specimens**
  Wu, D., Brooks, J., Sangoi, A.
  SPRINGER.2024: S546

- **Establishing and characterizing the molecular profiles, cellular features, and clinical utility of a patient-derived xenograft model using benign prostatic tissues.** *Laboratory investigation; a journal of technical methods and pathology*
  Polasko, A. L., Zhang, D., Ramraj, A., Chiu, C. L., Garcia-Marques, F. J., Bermudez, A., Kapp, K., Peterson, E., Qiu, Z., Pollack, A. S., Zhao, H., Pollack, J. R., Pitteri, et al
  2024: 102129

- **Assessing sociodemographic and regional disparities in Oncotype DX Genomic Prostate Score uptake** *CANCER*
  Mukand, N. H., Chirikova, E., Lichtensztajn, D., Negoita, S., Aboushwareb, T., Bennett, J., Brooks, J. D., Leppert, J. T., Chung, B. I., Li, C., Schwartz, S. M., Gershman, S. T., Insaf, et al
  2024

- **Upgrading of Grade Group 1 Prostate Cancer at Prostatectomy: Germline Risk Factors in a Prospective Cohort.** *Cancer epidemiology, biomarkers & prevention : a publication of the American Association for Cancer Research, cosponsored by the American Society of Preventive Oncology*
  Liss, M. A., Zeltser, N., Zheng, Y., Lopez, C., Liu, M., Patel, Y., Yamaguchi, T. N., Eng, S. E., Tian, M., Semmes, O. J., Lin, D. W., Brooks, J. D., Wei, et al
  2024

- **Incidence and Pitfalls of Adipose Tissue Encountered in Prostatic Transurethral Resections and Related Specimens.** *International journal of surgical pathology*
  Wu, D. J., Brooks, J. D., Rizkalla, C., Sangoi, A. R.
  2024: 10668969241265032

- **Proposal for an optimised definition of adverse pathology (unfavourable histology) that predicts metastatic risk in prostatic adenocarcinoma independent of grade group and pathological stage.** *Histopathology*
  Nguyen, J. K., Harik, L. R., Klein, E. A., Li, J., Corrigan, D., Liu, S., Chan, E., Hawley, S., Auman, H., Newcomb, L. F., Carroll, P. R., Cooperberg, M. R., Filson, et al
  2024

- **Long-Term Outcomes in Patients Using Protocol-Directed Active Surveillance for Prostate Cancer.** *JAMA*
  Newcomb, L. F., Schenk, J. M., Zheng, Y., Liu, M., Zhu, K., Brooks, J. D., Carroll, P. R., Dash, A., de la Calle, C. M., Ellis, W. J., Filson, C. P., Gleave, M. E., Liss, et al
  2024

- **ARTIFICIAL INTELLIGENCE-ASSISTED PROSTATE CANCER DETECTION ON B-MODE TRANSRECTAL ULTRASOUND IMAGES**
  Bhattacharya, I., Vesal, S., Jahanandish, H., Choi, M., Zhou, S., Kornberg, Z., Sommer, E., Fan, R. E., Brooks, J. D., Rusu, M., Sonn, G. A.
  LIPPINCOTT WILLIAMS & WILKINS.2024: E511

- **Exploiting Siglec-7/9 immune checkpoints in prostate cancer**
  Wen, R., Marti, G., Stark, J., Marques, F., Bermudez, A., Riley, N., Zhang, X., Zhao, H., Engleman, E., Bertozzi, C., Pitteri, S., Brooks, J.
  AMER ASSOC IMMUNOLOGISTS.2024

- **AZGP1 deficiency promotes angiogenesis in prostate cancer.** *Journal of translational medicine*
  Wen, R. M., Qiu, Z., Marti, G. E., Peterson, E. E., Marques, F. J., Bermudez, A., Wei, Y., Nolley, R., Lam, N., Polasko, A. L., Chiu, C. L., Zhang, D., Cho, et al
  2024; 22 (1): 383

- **Mortality Risks Associated with Depression in Men with Prostate Cancer.** *European urology oncology*
  Crump, C., Stattin, P., Brooks, J. D., Sundquist, J., Sieh, W., Sundquist, K.
  2024

- **RAPHIA: A deep learning pipeline for the registration of MRI and whole-mount histopathology images of the prostate.** *Computers in biology and medicine*
  Shao, W., Vesal, S., Soerensen, S. J., Bhattacharya, I., Golestani, N., Yamashita, R., Kunder, C. A., Fan, R. E., Ghanouni, P., Brooks, J. D., Sonn, G. A., Rusu, M.
  2024; 173: 108318

- **Critical evaluation of artificial intelligence as a digital twin of pathologists for prostate cancer pathology.** *Scientific reports*
  Eminaga, O., Abbas, M., Kunder, C., Tolkach, Y., Han, R., Brooks, J. D., Nolley, R., Semjonow, A., Boegemann, M., West, R., Long, J., Fan, R. E., Bettendorf, et al
  2024; 14 (1): 5284

- **68Ga-RM2 PET-MRI versus MRI alone for evaluation of patients with biochemical recurrence of prostate cancer: a single-centre, single-arm, phase 2/3 imaging trial.** *The Lancet. Oncology*
  Duan, H., Moradi, F., Davidzon, G. A., Liang, T., Song, H., Loening, A. M., Vasanawala, S., Srinivas, S., Brooks, J. D., Hancock, S., Iagaru, A.
  2024

- **Identification and characterization of intact glycopeptides in human urine.** *Scientific reports*
  Garcia-Marques, F., Fuller, K., Bermudez, A., Shamsher, N., Zhao, H., Brooks, J. D., Flory, M. R., Pitteri, S. J.
  2024; 14 (1): 3716

- **Response to Iao, guan, wang, et al.** *Journal of the National Cancer Institute*
  Crump, C., Stattin, P., Brooks, J. D., Sundquist, J., Edwards, A. C., Sundquist, K., Sieh, W.
  2024

- **UCHL1 is a potential molecular indicator and therapeutic target for neuroendocrine carcinomas.** *Cell reports. Medicine*
  Liu, S., Chai, T., Garcia-Marques, F., Yin, Q., Hsu, E. C., Shen, M., Shaw Toland, A. M., Bermudez, A., Hartono, A. B., Massey, C. F., Lee, C. S., Zheng, L., Baron, et al
  2024: 101381

- **High expression of Trop2 is associated with aggressive localized prostate cancer and is a candidate urinary biomarker.** *Scientific reports*
  Liu, S., Hawley, S. J., Kunder, C. A., Hsu, E. C., Shen, M., Westphalen, L., Auman, H., Newcomb, L. F., Lin, D. W., Nelson, P. S., Feng, Z., Tretiakova, M. S., True, et al
  2024; 14 (1): 486

- **ArtHiFy: Artificial Histopathology-style Features for Improving MRI-Based Prostate Cancer Detection**
  Bhattacharya, I., Shao, W., Li, X., Soerensen, S. J. C., Fan, R. E., Ghanouni, P., Brooks, J. D., Sonn, G. A., Rusu, M.
  edited by Chen, W., Astley, S. M.
  SPIE-INT SOC OPTICAL ENGINEERING.2024

- **Risks of Depression, Anxiety, and Suicide in Partners of Men with Prostate Cancer: A National Cohort Study.** *Journal of the National Cancer Institute*
  Crump, C., Stattin, P., Brooks, J. D., Sundquist, J., Edwards, A. C., Sundquist, K., Sieh, W.
  2023

- **Patient and physician perspectives on treatments for low-risk prostate cancer: a qualitative study.** *BMC cancer*
  Guan, A., Santiago-Rodriguez, E. J., Chung, B. I., Shim, J. K., Allen, L., Kuo, M., Lau, K., Loya, Z., Brooks, J. D., Cheng, I., DeRouen, M. C., Frosch, D. L., Golden, et al
  2023; 23 (1): 1191

- **Spatial transcriptomics identifies candidate stromal drivers of benign prostatic hyperplasia.** *JCI insight*
  Pollack, A. S., Kunder, C. A., Brazer, N., Shen, Z., Varma, S., West, R. B., Cunha, G. R., Baskin, L. S., Brooks, J. D., Pollack, J. R.
  2023

- **Measuring the multifaceted roles of mucin-domain glycoproteins in cancer.** *Advances in cancer research*
  Riley, N. M., Wen, R. M., Bertozzi, C. R., Brooks, J. D., Pitteri, S. J.
  2023; 157: 83-121

- **ACAA2 is a novel molecular indicator for cancers with neuroendocrine phenotype** *BRITISH JOURNAL OF CANCER*
  Shen, M., Liu, S., Toland, A., Hsu, E., Hartono, A. B., Alabi, B. R., Aslan, M., Nguyen, H. M., Sessions, C. J., Nolley, R., Shi, C., Huang, J., Brooks, et al
  2023

- **ACAA2 is a novel molecular indicator for cancers with neuroendocrine phenotype.** *British journal of cancer*
  Shen, M., Liu, S., Toland, A., Hsu, E. C., Hartono, A. B., Alabi, B. R., Aslan, M., Nguyen, H. M., Sessions, C. J., Nolley, R., Shi, C., Huang, J., Brooks, et al
  2023

- **Identification of age- and immune-related gene signatures for clinical outcome prediction in lung adenocarcinoma.** *Cancer medicine*
  Zhou, A., Zhang, D., Kang, X., Brooks, J. D.
  2023
- **Risks of Alcohol and Drug Use Disorders in Prostate Cancer Survivors: National Cohort Study.** *JNCI cancer spectrum*
  Crump, C., Stattin, P., Brooks, J. D., Sundquist, J., Edwards, A. C., Sieh, W., Sundquist, K.
  2023
- **Artificial Intelligence-Based PTEN Loss Assessment as an Early Predictor of Prostate Cancer Metastasis After Surgery: a Multi-Center Retrospective Study.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*
  Patel, P., Harmon, S., Iseman, R., Ludkowski, O., Auman, H., Hawley, S., Newcomb, L. F., Lin, D. W., Nelson, P. S., Feng, Z., Boyer, H. D., Tretiakova, M. S., True, et al
  2023: 100241
- **Proteomics analysis of urine and catheter-associated biofilms in spinal cord injury patients.** *American journal of clinical and experimental urology*
  Garcia-Marques, F. J., Zakrasek, E., Bermudez, A., Polasko, A. L., Liu, S., Stoyanova, T., Brooks, J. D., Lavelle, J., Pitteri, S. J.
  2023; 11 (3): 206-219
- **Patient-level factors associated with the use of active surveillance: The talking about prostate cancer cohort.**
  Mukand, N., Shariff-Marco, S., Brooks, J. D., Chung, B. I., Leppert, J. T., Frosh, D., Sieh, W., Guan, A., Santiago-Rodriguez, E. J., Carroll, P., Shim, J. K., Kuo, M., Allen, et al
  LIPPINCOTT WILLIAMS & WILKINS.2023
- **Distinguishing Renal Cell Carcinoma From Normal Kidney Tissue Using Mass Spectrometry Imaging Combined With Machine Learning.** *JCO precision oncology*
  Shankar, V., Vijayalakshmi, K., Nolley, R., Sonn, G. A., Kao, C. S., Zhao, H., Wen, R., Eberlin, L. S., Tibshirani, R., Zare, R. N., Brooks, J. D.
  2023; 7: e2200668
- **Long-term Risks of Depression and Suicide Among Men with Prostate Cancer: A National Cohort Study.** *European urology*
  Crump, C., Stattin, P., Brooks, J. D., Sundquist, J., Bill-Axelson, A., Edwards, A. C., Sundquist, K., Sieh, W.
  2023
- **Siglec-7/9 are novel immune checkpoints for prostate cancer**
  Wen, R., Stark, J. C., Marti, G., Garcia-Marques, F., Zhao, H., Nolley, R., Bertozzi, C. R., Pitteri, S. J., Brooks, J. D.
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