Stanford



Donna Peehl, PhD

Professor (Research) of Urology, Emerita

Urology - Divisions

Curriculum Vitae available Online

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Urology - Divisions
- Member, Bio-X
- Member, Stanford Cancer Institute

HONORS AND AWARDS

- Prostate Cancer Research Award, CaP CURE (1993,1995,1996,1997,1999,2000)
- Prostate Cancer Research Award, Prostate Cancer Foundation (2003, 2008)
- Cardura International Competitive Award, Pfizer (2000/2001)

PROFESSIONAL EDUCATION

- B.S., Stanford University , Biology (1974)
- Ph.D., University of Colorado , biology (1979)

LINKS

- urology site: http://urology.stanford.edu/faculty/peehl.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The overall goal of my research is to develop realistic experimental models of benign and malignant prostatic diseases. Both benign prostatic hyperplasia (BPH) and prostate cancer (PCa) are major medical problems, causing significant morbidity and mortality. My lab has developed techniques to establish primary cultures of epithelial and stromal cells from normal, benign or malignant human prostatic tissues, and we have used these cell cultures to investigate many aspects of the molecular and cellular biology of the prostate. More recently, we have established “tissue slice cultures” (TSCs), which are live, precision-cut thin sections of tissues that can be maintained in culture for several days. TSCs are perhaps the most representative experimental model of the human prostate available, containing almost all of the cells typically present in the body and maintaining essential epithelial-stromal interactions as well as differentiated cells, which are typically lost in mono-culture. TSCs can also be established as grafts under the renal capsule of mice, providing an in vivo model of the benign and malignant prostate. In addition to our cell and tissue models, our research takes advantage of the archival patient materials available in the Department of Urology. These include tissues from a well-characterized series of radical prostatectomy specimens and a serum bank. Using these diverse models and resources, we carry out studies related to diagnosis, prognosis and treatment of PCa. Currently, some of our projects include: 1) investigating the association of a splice-variant of the androgen receptor with aggressive

PCa, 2) studying cell surface proteoglycans as novel and specific biomarkers of PCa, 3) searching for serum autoantibodies or proteins that could be used to diagnose PCa, 4) creating induced pluripotent stem (iPS) cells from PCa cells as a novel model to characterize cancer-related methylation, 5) determining the role of monoamine oxidase A (MAOA) in normal prostate differentiation and as a therapeutic target, 6) using TSCs to screen phage display libraries to discover PCa-specific cell surface molecules for cancer-specific targeting, 7) developing hyperpolarized 13C-pyruvate magnetic resonance spectroscopic imaging for rapid evaluation of therapeutic response, 8) creating additional cell culture models of metastatic PCa, and 9) testing the efficacy of a novel organic arsenical compound against PCa. These projects are funded in part by the NIH, the DoD, and the Prostate Cancer Foundation.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (PhD Program)

Publications

PUBLICATIONS

- **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

- **Animal Models and Their Role in Imaging-Assisted Co-Clinical Trials.** *Tomography (Ann Arbor, Mich.)*
  Peehl, D. M., Badea, C. T., Chenevert, T. L., Daldrup-Link, H. E., Ding, L., Dobrolecki, L. E., Houghton, A. M., Kinahan, P. E., Kurhanewicz, J., Lewis, M. T., Li, S., Luker, G. D., Ma, et al
  2023; 9 (2): 657-680

- **Multiparametric Magnetic Resonance Imaging and Metabolic Characterization of Patient-Derived Xenograft Models of Clear Cell Renal Cell Carcinoma.** *Metabolites*
  Agudelo, J. P., Upadhyay, D., Zhang, D., Zhao, H., Nolley, R., Sun, J., Agarwal, S., Bok, R. A., Vigneron, D. B., Brooks, J. D., Kurhanewicz, J., Peehl, D. M., Sriram, et al
  2022; 12 (11)

- **The controversial role and therapeutic development of the m6A demethylase FTO in renal cell carcinoma.** *Translational oncology*
  Zhang, D., Wornow, S., Peehl, D. M., Rankin, E. B., Brooks, J. D.
  2022; 25: 101518

- **SU086, an inhibitor of HSP90, impairs glycolysis and represents a treatment strategy for advanced prostate cancer.** *Cell reports. Medicine*
  Rice, M. A., Kumar, V., Tailor, D., Garcia-Marques, F. J., Hsu, E., Liu, S., Bermudez, A., Kanchustambham, V., Shankar, V., Inde, Z., Alabi, B. R., Muruganantham, A., Shen, et al
  2022; 3 (2): 100502

- **Identifying a novel glycolytic inhibitor for treatment of aggressive prostate cancer.**
  Stoyanova, T., Rice, M. A., Kumar, V., Tailor, D., Garcia-Marques, F., Bermudez, A., Kanchustambham, V., Shankar, V., Inde, Z., Pandrala, M., Nolley, R., Ghoochani, A., Liu, et al
  AMER ASSOC CANCER RESEARCH.2021

- **MAP3K7 loss drives enhanced androgen signaling and independently confers risk of recurrence in prostate cancer with joint loss of CHD1.** *Molecular cancer research : MCR*
  Jillson, L. K., Rider, L. C., Rodrigues, L. U., Romero, L., Karimpour-Fard, A., Nieto, C., Gillette, C., Torkko, K., Danis, E., Smith, E. E., Nolley, R., Peehl, D. M., Lucia, et al
  2021

- **Elevated Tumor Lactate and Efflux in High-grade Prostate Cancer demonstrated by Hyperpolarized 13C Magnetic Resonance Spectroscopy of Prostate Tissue Slice Cultures.** *Cancers*

Sriram, R. n., Van Criekinge, M. n., DeLos Santos, J. n., Ahamed, F. n., Qin, H. n., Nolley, R. n., Santos, R. D., Tabatabai, Z. L., Bok, R. A., Keshari, K. R., Vigneron, D. B., Peehl, D. M., Kurhanewicz, et al

2020; 12 (3)

- **The m6A RNA demethylase FTO is a HIF-independent synthetic lethal partner with the VHL tumor suppressor.** *Proceedings of the National Academy of Sciences of the United States of America*

  Xiao, Y. n., Thakkar, K. N., Zhao, H. n., Broughton, J. n., Li, Y. n., Seoane, J. A., Diep, A. N., Metzner, T. J., von Eyben, R. n., Dill, D. L., Brooks, J. D., Curtis, C. n., Leppert, et al

  2020

- **Trop2 is a driver of metastatic prostate cancer with neuroendocrine phenotype via PARP1.** *Proceedings of the National Academy of Sciences of the United States of America*

  Hsu, E. C., Rice, M. A., Bermudez, A. n., Marques, F. J., Aslan, M. n., Liu, S. n., Ghoochani, A. n., Zhang, C. A., Chen, Y. S., Zlitni, A. n., Kumar, S. n., Nolley, R. n., Habte, et al

  2020

- **S100A10 is a critical mediator of GAS6/AXL-induced angiogenesis in renal cell carcinoma.** *Cancer research*

  Xiao, Y., Zhao, H., Tian, L., Nolley, R., Diep, A. N., Ernst, A., Fuh, K. C., Miao, Y. R., von Eyben, R., Leppert, J. T., Brooks, J. D., Peehl, D. M., Giaccia, et al

  2019

- **miR-22 Regulates Invasion, Gene Expression and Predicts Overall Survival in Patients with Clear Cell Renal Cell Carcinoma.** *Kidney cancer*

  Gong, X., Zhao, H., Saar, M., Peehl, D. M., Brooks, J. D.

  2019; 3 (2): 119–32

- **Defining new drivers of castration- resistant prostate cancer**

  Hsu, E., Rice, M., Nolley, R., Bermudez, A., Huang, J., Peehl, D., Kunder, C., Pitteri, S., Brooks, J., Stoyanova, T.

  AMER ASSOC CANCER RESEARCH.2018: 90

- **A note on improved statistical approaches to account for pseudoprogression** *CANCER CHEMOTHERAPY AND PHARMACOLOGY*

  Abrouk, N., Oronsky, B., Caroen, S., Ning, S., Knox, S., Peehl, D.

  2018; 81 (3): 621–26

- **Sensitization of neuroendocrine prostate cancer by RRx-001.**

  Peehl, D., Zhao, H., Ning, S.

  AMER SOC CLINICAL ONCOLOGY.2018

- **A spliced form of CD44 expresses the unique glycan that is recognized by the prostate cancer specific antibody F77** *ONCOTARGET*

  Chen, X., Nagai, Y., Zhu, Z., Ruan, H., Peehl, D. M., Greene, M. I., Zhang, H.

  2018; 9 (3): 3631–40

- **Bioorthogonal Labeling of Human Prostate Cancer Tissue Slice Cultures for Glycoproteomics** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*

  Spiciarich, D. R., Nolley, R., Maund, S. L., Purcell, S. C., Herschel, J., Iavarone, A. T., Peehl, D. M., Bertozzi, C. R.

  2017; 56 (31): 8992–97

- **Comprehensive Drug Testing of Patient-derived Conditionally Reprogrammed Cells from Castration-resistant Prostate Cancer** *EUROPEAN UROLOGY*

  Saeed, K., Rahkama, V., Eldfors, S., Bychkov, D., Mpindi, J. P., Yadav, B., Paavolainen, L., Aittokallio, T., Heckman, C., Wennerberg, K., Peehl, D. M., Horvath, P., Mirtti, et al

  2017; 71 (3): 319-327

- **The immunomodulatory anticancer agent, RRx-001, induces an interferon response through epigenetic induction of viral mimicry** *CLINICAL EPIGENETICS*

  Zhao, H., Ning, S., Nolley, R., Scicinski, J., Oronsky, B., Knox, S. J., Peehl, D. M.

  2017; 9

- **RRx-001: a systemically non-toxic M2-to-M1 macrophage stimulating and prosensitizing agent in Phase II clinical trials** *EXPERT OPINION ON INVESTIGATIONAL DRUGS*

  Oronsky, B., Paulmurugan, R., Foygel, K., Scicinski, J., Knox, S. J., Peehl, D., Zhao, H., Ning, S., Cabrales, P., Summers, T. A., Reid, T. R., Fitch, W. L., Kim, et al

2017; 26 (1): 109-119

- **Cabozantinib inhibits tumor growth and metastasis of a patient-derived xenograft model of papillary renal cell carcinoma with MET mutation** *CANCER BIOLOGY & THERAPY*
  Zhao, H., Nolley, R., Chan, A. M. W., Rankin, E. B., Peehl, D. M.
  2017; 18 (11): 863–71
- **Cabozantinib inhibits tumor growth and metastasis of a patient-derived xenograft model of papillary renal cell carcinoma with MET mutation.** *Cancer biology & therapy*
  Zhao, H., Nolley, R., Chan, A. M., Rankin, E. B., Peehl, D. M.
  2016: 0-?
- **RRx-001, A novel dinitroazetidine radiosensitizer** *INVESTIGATIONAL NEW DRUGS*
  Oronsky, B., Scicinski, J., Ning, S., Peehl, D., Oronsky, A., Cabrales, P., Bednarski, M., Knox, S.
  2016; 34 (3): 371-377
- **Spheroid culture of LuCaP 136 patient-derived xenograft enables versatile preclinical models of prostate cancer** *CLINICAL & EXPERIMENTAL METASTASIS*
  Valta, M. P., Zhao, H., Saar, M., Tuomela, J., Nolley, R., Linxweiler, J., Sandholm, J., Lehtimaki, J., Harkonen, P., Coleman, I., Nelson, P. S., Corey, E., Peehl, et al
  2016; 33 (4): 325-337
- **A Chemical Glycoproteomics Platform To study the Human Prostate Secretome**
  Spiciarich, D. R., Purcell, S., Maund, S. L., Peehl, D. M., Bertozzi, C. R.
  FEDERATION AMER SOC EXP BIOL.2016
- **Rockets, Radiosensitizers, and RRx-001: An Origin Story Part I** *DISCOVERY MEDICINE*
  Oronsky, B., Scicinski, J., Ning, S., Peehl, D., Oronsky, A., Cabrales, P., Bednarski, M., Knox, S.
  2016; 115: 173-180
- **Non-invasive differentiation of benign renal tumors from clear cell renal cell carcinomas using clinically translatable hyperpolarized (13)C pyruvate magnetic resonance.** *Tomography : a journal for imaging research*
  Sriram, R., Van Criekinge, M., Delos Santos, J., Keshari, K. R., Wilson, D. M., Peehl, D., Kurhanewicz, J., Wang, Z. J.
  2016; 2 (1): 35-42
- **A Protective Role for Androgen Receptor in Clear Cell Renal Cell Carcinoma Based on Mining TCGA Data.** *PloS one*
  Zhao, H., Leppert, J. T., Peehl, D. M.
  2016; 11 (1)
- **Endoscopic detection of cancer with lensless radioluminescence imaging and machine vision.** *Scientific reports*
  Türkcan, S., Naczynski, D. J., Nolley, R., Sasportas, L. S., Peehl, D. M., Pratx, G.
  2016; 6: 30737-?
- **Tumor microenvironment derived exosomes pleiotropically modulate cancer cell metabolism.** *eLife*
  Zhao, H., Yang, L., Baddour, J., Achreja, A., Bernard, V., Moss, T., Marini, J. C., Tudawe, T., Seviour, E. G., San Lucas, F. A., Alvarez, H., Gupta, S., Maiti, et al
  2016; 5
- **Epigenetic effects of RRx-001: a possible unifying mechanism of anticancer activity.** *Oncotarget*
  Zhao, H., Ning, S., Scicinski, J., Oronsky, B., Knox, S. J., Peehl, D. M.
  2015; 6 (41): 43172-43181
- **NO to cancer: The complex and multifaceted role of nitric oxide and the epigenetic nitric oxide donor, RRx-001** *REDOX BIOLOGY*
  Scicinski, J., Oronsky, B., Ning, S., Knox, S., Peehl, D., Kim, M. M., Langecker, P., Fanger, G.
  2015; 6: 1-8
- **NO to cancer: The complex and multifaceted role of nitric oxide and the epigenetic nitric oxide donor, RRx-001.** *Redox biology*
  Scicinski, J., Oronsky, B., Ning, S., Knox, S., Peehl, D., Kim, M. M., Langecker, P., Fanger, G.
  2015; 6: 1-8
- **Metabolic response of prostate cancer to nicotinamide phophoribosyltransferase inhibition in a hyperpolarized MR/PET compatible bioreactor** *PROSTATE*

Keshari, K. R., Wilson, D. M., Van Criekinge, M., Sriram, R., Koelsch, B. L., Wang, Z. J., VanBrocklin, H. F., Peehl, D. M., O'Brien, T., Sampath, D., Carano, R. A., Kurhanewicz, J.
2015; 75 (14): 1601-1609

- **Safety and activity of RRx-001 in patients with advanced cancer: a first-in-human, open-label, dose-escalation phase 1 study** *LANCET ONCOLOGY*
  Reid, T., Oronsky, B., Scicinski, J., Scribner, C. L., Knox, S. J., Ning, S., Peehl, D. M., Korn, R., Stirn, M., Carter, C. A., Oronsky, A., Taylor, M. J., Fitch, et al
  2015; 16 (9): 1133-1142
- **Nrf2 activity as a potential biomarker for the pan-epigenetic anticancer agent, RRx-001.** *Oncotarget*
  Ning, S., Sekar, T. V., Scicinski, J., Oronsky, B., Peehl, D. M., Knox, S. J., Paulmurugan, R.
  2015; 6 (25): 21547-21556
- **Probing the prostate cancer secretome: Biomarker identification via bioorthogonal chemistry and MS proteomics**
  Purcell, S., Spiciarich, D., Maund, S., Peehl, D., Bertozzi, C.
  AMER CHEMICAL SOC.2015
- **RRx-001: A double action systemically non-toxic epigenetic agent for cancer therapy**
  Zhao, H., Ning, S., Scicinski, J., Oronsky, B., Knox, S., Peehl, D. M.
  AMER ASSOC CANCER RESEARCH.2015
- **Patient-derived prostate cancer cells for piloting of drug sensitivity and resistance testing**
  Saeed, K., Rahkama, V., Eldfors, S., Bychkov, D., Mpindi, J., Yadav, B., Paavolainen, L., Aittokallio, T., Wennerberg, K., Peehl, D. M., Horvath, P., Mirtti, T., Rannikko, et al
  WILEY-BLACKWELL.2015: 49
- **Hepcidin Regulation in Prostate and Its Disruption in Prostate Cancer** *CANCER RESEARCH*
  Tesfay, L., Clausen, K. A., Kim, J. W., Hegde, P., Wang, X., Miller, L. D., Deng, Z., Blanchette, N., Arvedson, T., Miranti, C. K., Babitt, J. L., Lin, H. Y., Peehl, et al
  2015; 75 (11): 2254-2263
- **Elevated Serum MicroRNA Levels Associate with Absence of High-Grade Prostate Cancer in a Retrospective Cohort** *PLOS ONE*
  Mihelich, B. L., Maranville, J. C., Nolley, R., Peehl, D. M., Nonn, L.
  2015; 10 (4)
- **Coordinate Loss of MAP3K7 and CHD1 Promotes Aggressive Prostate Cancer** *CANCER RESEARCH*
  Rodrigues, L. U., Rider, L., Nieto, C., Romero, L., Karimpour-Fard, A., Loda, M., Lucia, M. S., Wu, M., Shi, L., Cimic, A., Sirintrapun, S. J., Nolley, R., Pac, et al
  2015; 75 (6): 1021-1034
- **Expression of the leukocyte chemoattractant chemerin in human prostate tumors.**
  Pachynski, R., Zabel, B., Leong, W., Crowder, R., Peehl, D., Butcher, E.
  AMER SOC CLINICAL ONCOLOGY.2015
- **A strategy for tissue self-organization that is robust to cellular heterogeneity and plasticity.** *Proceedings of the National Academy of Sciences of the United States of America*
  Cerchiari, A. E., Garbe, J. C., Jee, N. Y., Todhunter, M. E., Broaders, K. E., Peehl, D. M., Desai, T. A., LaBarge, M. A., Thomson, M., Gartner, Z. J.
  2015; 112 (7): 2287-2292
- **Patient-derived tissue culture model systems of renal cell carcinoma for development of clinically translatable metabolic biomarkers**
  Sriram, R., Keshari, K. R., Van Criekinge, M., Kurhanewicz, J., Wilson, D. M., Peehl, D. M., Bok, R., Zhen, W. J.
  AMER ASSOC CANCER RESEARCH.2014
- **Tumor microenvironment derived exosomes regulate prostate cancer metabolism**
  Zhao, H., Yang, L., Achreja, A., Marini, J., Peehl, D., Nagrath, D.
  AMER ASSOC CANCER RESEARCH.2014
- **Molecular imaging of RRx-001-induced oxidative stress in Nrf2-luciferase expressing SCC VII tumors in mice**
  Ning, S., Sekar, T., Paulmurugan, R., Scicinski, J., Oronsky, B., Peehl, D., Knox, S. J.
  AMER ASSOC CANCER RESEARCH.2014

- **Spheroid culture of LuCaP 147 as an authentic preclinical model of prostate cancer subtype with SPOP mutation and hypermutator phenotype** *CANCER LETTERS*
  Saar, M., Zhao, H., Nolley, R., Young, S. R., Coleman, I., Nelson, P. S., Vessella, R. L., Peehl, D. M.
  2014; 351 (2): 272-280

- **Identifying prostate cancer biomarkers by profiling glycoproteins in human prostate tissue**
  Spiciarich, D. R., Maund, S. L., Peehl, D. M., Bertozzi, C. R.
  AMER CHEMICAL SOC.2014

- **Phosphorylcholine-coated semiconducting polymer nanoparticles as rapid and efficient labeling agents for in vivo cell tracking.** *Advanced healthcare materials*
  Pu, K., Shuhendler, A. J., Valta, M. P., Cui, L., Saar, M., Peehl, D. M., Rao, J.
  2014; 3 (8): 1292-1298

- **Nuclear KLLN expression associates with improved relapse-free survival for prostate carcinoma.** *Endocrine-related cancer*
  Wang, Y., Roma, A., Nolley, R., Abdul-Karim, F., Peehl, D. M., Eng, C.
  2014; 21 (4): 579-586

- **Carbohydrate Sequence of the Prostate Cancer-associated Antigen F77 Assigned by a Mucin O-Glycome Designer Array** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Gao, C., Liu, Y., Zhang, H., Zhang, Y., Fukuda, M. N., Palma, A. S., Kozak, R. P., Childs, R. A., Nonaka, M., Li, Z., Siegel, D. L., Hanfland, P., Peehl, et al
  2014; 289 (23): 16462-16477

- **Determination of Carbohydrate Structure Recognized by Prostate-specific F77 Monoclonal Antibody through Expression Analysis of Glycosyltransferase Genes.** *journal of biological chemistry*
  Nonaka, M., Fukuda, M. N., Gao, C., Li, Z., Zhang, H., Greene, M. I., Peehl, D. M., Feizi, T., Fukuda, M.
  2014; 289 (23): 16478-16486

- **Determination of Carbohydrate Structure Recognized by Prostate-specific F77 Monoclonal Antibody through Expression Analysis of Glycosyltransferase Genes** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Nonaka, M., Fukuda, M. N., Gao, C., Li, Z., Zhang, H., Greene, M. I., Peehl, D. M., Ten Feizi, F. Z., Fukuda, M.
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- **Carbohydrate sequence of the prostate cancer-associated antigen F77 assigned by a mucin O-glycome designer array.** *journal of biological chemistry*
  Gao, C., Liu, Y., Zhang, H., Zhang, Y., Fukuda, M. N., Palma, A. S., Kozak, R. P., Childs, R. A., Nonaka, M., Li, Z., Siegel, D. L., Hanfland, P., Peehl, et al
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- **Development of a realistic in vivo bone metastasis model of human renal cell carcinoma** *CLINICAL & EXPERIMENTAL METASTASIS*
  Valta, M. P., Zhao, H., Ingels, A., Thong, A. E., Nolley, R., Saar, M., Peehl, D. M.
  2014; 31 (5): 573-584

- **Preclinical trial of a new dual mTOR inhibitor, MLN0128, using renal cell carcinoma tumorgrafts** *INTERNATIONAL JOURNAL OF CANCER*
  Ingels, A., Zhao, H., Thong, A. E., Saar, M., Valta, M. P., Nolley, R., Santos, J., Peehl, D. M.
  2014; 134 (10): 2322-2329

- **Identifying prostate cancer biomarkers by profiling glycoproteins in human prostate tissue**
  Spiciarich, D., Maund, S., Peehl, D., Bertozzi, C.
  FEDERATION AMER SOC EXP BIOL.2014

- **A Tissue Graft Model of DNA Damage Response in the Normal and Malignant Human Prostate** *JOURNAL OF UROLOGY*
  af Hallstrom, T. M., Zhao, H., Tian, J., Rantanen, V., Reese, S. W., Nolley, R., Laiho, M., Peehl, D. M.
  2014; 191 (3): 842-849

- **Optimization and comprehensive characterization of a faithful tissue culture model of the benign and malignant human prostate.** *Laboratory investigation; a journal of technical methods and pathology*
  Maund, S. L., Nolley, R., Peehl, D. M.
  2014; 94 (2): 208-221

- **Tissue slice grafts of human renal cell carcinoma: an authentic preclinical model with high engraftment rate and metastatic potential.** *Urologic oncology*
  Thong, A. E., Zhao, H., Ingels, A., Valta, M. P., Nolley, R., Santos, J., Young, S. R., Peehl, D. M.
  2014; 32 (1): 43 e23-30

- **Tissue slice grafts of human renal cell carcinoma: An authentic preclinical model with high engraftment rate and metastatic potential** *UROLOGIC ONCOLOGY-SEMINARS AND ORIGINAL INVESTIGATIONS*
  Thong, A. E., Zhao, H., Ingels, A., Valta, M. P., Nolley, R., Santos, J., Young, S. R., Peehl, D. M.
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- **Imaging the Glycosylation State of Cell Surface Glycoproteins by Two-Photon Fluorescence Lifetime Imaging Microscopy** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*
  Belardi, B., de la Zerda, A., Spiciarich, D. R., Maund, S. L., Peehl, D. M., Bertozzi, C. R.
  2013; 52 (52): 14045-14049

- **Radioprotection and Cell Cycle Arrest of Intestinal Epithelial Cells by Darinaparsin, a Tumor Radiosensitizer** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
  Tian, J., Doi, H., Saar, M., Santos, J., Li, X., Peehl, D. M., Knox, S. J.
  2013; 87 (5): 1179-1185

- **Establishment and serial passage of cell cultures derived from LuCaP xenografts** *PROSTATE*
  Young, S. R., Saar, M., Santos, J., Nguyen, H. M., Vessella, R. L., Peehl, D. M.
  2013; 73 (12): 1251-1262

- **Patient-derived tissue slice grafts accurately depict response of high-risk primary prostate cancer to androgen deprivation therapy** *JOURNAL OF TRANSLATIONAL MEDICINE*
  Zhao, H., Thong, A., Nolley, R., Reese, S. W., Santos, J., Ingels, A., Peehl, D. M.
  2013; 11

- **Metabolic Reprogramming and Validation of Hyperpolarized C-13 Lactate as a Prostate Cancer Biomarker Using a Human Prostate Tissue Slice Culture Bioreactor** *PROSTATE*
  Keshari, K. R., Sriram, R., Van Criekinge, M., Wilson, D. M., Wang, Z. J., Vigneron, D. B., Peehl, D. M., Kurhanewicz, J.
  2013; 73 (11): 1171-1181

- **Patient-derived tissue slice grafts of high-risk primary prostate cancer: An authentic preclinical model for synthetic lethality-based therapy**
  Zhao, H., Thong, A., Nolley, R., Reese, S., Santos, J., Ingels, A., Peehl, D.
  AMER ASSOC CANCER RESEARCH.2013

- **PRE-CLINICAL TRIAL OF A NEW DUAL MTOR INHIBITOR: INK128 FOR RENAL CELL CARCINOMA**
  Ingels, A., Thong, A., Saar, M., Valta, M., Nolley, R., Santos, J., Zhao, H., Peehl, D.
  ELSEVIER SCIENCE INC.2013: E65

- **Transcription Factor KLLN Inhibits Tumor Growth by AR Suppression, Induces Apoptosis by TP53/TP73 Stimulation in Prostate Carcinomas, and Correlates With Cellular Differentiation** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
  Wang, Y., Radhakrishnan, D., He, X., Peehl, D. M., Eng, C.
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- **Anti-Oligomannose Antibodies as Potential Serum Biomarkers of Aggressive Prostate Cancer.** *Drug development research*
  Wang, D., Dafik, L., Nolley, R., Huang, W., Wolfinger, R. D., Wang, L. X., Peehl, D. M.
  2013; 74 (2): 65-80

- **Anti-Oligomannose Antibodies as Potential Serum Biomarkers of Aggressive Prostate Cancer** *DRUG DEVELOPMENT RESEARCH*
  Wang, D., Dafik, L., Nolley, R., Huang, W., Wolfinger, R. D., Wang, L., Peehl, D. M.
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- **Mouse model of primary human renal cell carcinoma metastasis to bone**
  Valta, M., Zhao, H., Ingels, A., Thong, A., Nolley, R., Saar, M., Peehl, D.
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