

SBUR 2019 Annual Meeting – New Orleans, LA

Poster Session #1

Friday, November 8, 2019

5:15 -7:15 P.M.

PS1-01



A next-generation functional genomics strategy to deconvolute compound genetic drivers and genotype-to-phenotype relationships in bladder cancer

2019 Eula and Donald S. Coffey Innovative Research Award Finalist

John K. Lee, M.D., Ph.D.; Assistant Member, Human Biology Division, Fred Hutchinson Cancer Research Center
Alicia Wong; Human Biology Division, Fred Hutchinson Cancer Research Center, Huiyun Sun; Human Biology Division, Fred Hutchinson Cancer Research Center, Sujata Jana, Ph.D.; Human Biology Division, Fred Hutchinson Cancer Research Center, Andrew C. Hsieh, M.D.; Assistant Member, Human Biology Division, Fred Hutchinson Cancer Research Center

https://drive.google.com/open?id=1igjg01Lsh5xk2pLyhX70w-HB4bMzT8_t

PS1-02



Myeloid-Derived Suppressor Cells Inhibit T Cell Activation in Prostate Cancer through Nitrating LCK

2019 Eula and Donald S. Coffey Innovative Research Award Finalist

Xin Lu, Ph.D., Boler Assistant Professor, University of Notre Dame; Indiana University
Shan Feng, Ph.D., Postdoctoral Fellow, Liang Cheng, M.D., Virgil Moon Professor of Pathology

<https://drive.google.com/open?id=1TIKviBkRftOi916p3bPh-41w-BVUSWgA>

PS1-03

First Genetically Engineered Mouse Model of Penile Cancer and Its Application in Preclinical Immunotherapy

Xin Lu, Ph.D., Boler Assistant Professor, University of Notre Dame; Indiana University

Tianhe Huang, PhD, Postdoctoral Fellow, Pheroze Tamboli, MBBS, Professor, MD Anderson Cancer Center, Priya Rao, MD, Associate Professor, MD Anderson Cancer Center, Magaly Martinez Ferrer, PhD, Assistant Professor, University of Puerto Rico, Ronald A. DePinho, MD, Professor, MD Anderson Cancer Center, Curtis A. Pettaway, MD, Professor, MD Anderson Cancer Center

<https://drive.google.com/open?id=1Cl5Mge2cXfg8IGH4LKZMgxzHE2GkgwQq>

PS1-04



A Novel Therapeutic Target For the Treatment Lethal Prostate Cancer

2019 Eula and Donald S. Coffey Innovative Research Award Finalist

Salma Kaochar, PhD, Baylor College of Medicine

Additional Authors - Darlene Skapura, Matthew Robertson, Christel Davis, Erik Ehli, Kimal Rajapakshe, Cristian Coarfa, Bert O'Malley, Nicholas Mitsiades

<https://drive.google.com/open?id=106zuyn5SuwMm44uvQGDmoxbJBfdOspCy>

PS1-05



PD-L1 is associated with the clinical features of human primary prostate tumors

2019 Travel Award Winner

Dongxia Ge, Tulane University, New Orleans, LA

<https://drive.google.com/open?id=1uGNapp-CJyYgyTZ2hZEvQfjxDj5EkVpx>

PS1-06

LSD1 activates PI3K/AKT signaling through regulating p85 expression in prostate cancer cells

Zifeng Wang, Center for Personalized Cancer Therapy, University of Massachusetts Boston

Prof. Shuai Gao, Dr. Dong Han, Wanting Han, Muqing Li, Prof. Changmeng Cai

https://drive.google.com/open?id=1oznHPNI-llHeA7xPg1kCSO_9d-5ywfjF

PS1-07



Interleukin-17 Upregulates MTA1 Expression to Promote Cancer Cell Migration and Invasion

2019 Travel Award Winner

Ahmed A. Moustafa, Postdoctoral Fellow, Department of Structural & Cellular Biology, Tulane University, New Orleans, LA
Na Guo, Department of Structural & Cellular Biology, Tulane University, Department of Obstetrics and Gynecology, West China Second University Hospital, Sichuan University, Chengdu, China, Ge Shen, Department of Structural & Cellular Biology, Tulane University, Ying Zhang, Department of Gynecology, Guangyuan First People, Aô's Hospital, Guangyuan, China, Dongxia Ge, Department of Structural & Cellular Biology, Tulane University, Zongbing You, Department of Structural & Cellular Biology, Department of Orthopedic Surgery, Tulane Cancer Center and Louisiana Cancer Research Consortium, Tulane Center for Stem Cell Research and Regenerative Medicine, Tulane Center for Aging, Tulane University; Southeast Louisiana Veterans Health Care System, New Orleans

<https://drive.google.com/open?id=1gONm-vC5C-pbXaKaGgw8RXT16mst6hQW>

PS1-08

A novel model of prostate cancer suggests enzalutamide functions through the immune system to diminish castration resistant and metastatic growth

Steven Kregel, PhD, University of Michigan

Jae Eun Choi, Kristen Juckette, Brooke Mccollum, Stephanie Simko, Parth Desai, Yuanyuan Qiao PhD, Paul A. Volden PhD, and Arul M. Chinnaiyan MD, PhD

<https://drive.google.com/open?id=1SnvYD4hFm0zwUGPqnNnffVtdfKqVsmjq>

PS1-09

Androgen Receptor Degradation Overcome Common Resistance Mechanisms Developed During Prostate Cancer Treatment

Steven Kregel, PhD, University of Michigan
Chao Wang, PhD, Xin Han, PhD, Lanbo Xiao, PhD, Ester Fernandez-Salas, PhD, Pushpinder Bawa, PhD, Brooke L. McCollum, Kari Wilder-Romans, BS, Xuhong Cao, MS, Corey Speers, MD/PhD, Shaomeng Wang, PhD, and Arul M. Chinnaiyan, MD, PhD

<https://drive.google.com/open?id=1hzRJaOdw1oFfk01ZZvAJ5wjiWmmk8kQV>

PS1-10

Trop2 as a Driver and Therapeutic Target for Metastatic Castration-Resistant Prostate Cancer with Neuroendocrine Phenotype

Tanya Stoyanova, PhD, Stanford University

En-Chi Hsu, Meghan A. Rice, Abel Bermudez, Fernando Jose Garcia Marques, Merve Aslan, Ali Ghoochani, Chiyuan Amy Zhang, Yun-Sheng Chen, Aimen Zlitni, Frezghi Habte, Sahil Kumar, Shiqin Liu, Kashyap Koul, Michelle Shen, Rosalie Nolley, Donna M. Peehl, Amina Zoubeidi, Sanjiv Sam Gambhir, Christian Kunder, Sharon Pitteri, James D. Brooks and Tanya Stoyanova

<https://drive.google.com/open?id=1dU0LI4SIRVnt8T1GVSoHk5yLDvtuNjn>

PS1-11

3D Renal Organoids of Human Urinary Stem Cells for Nephrotoxicity Testing

Yuanyuan Zhang MD, PhD, Associate Professor, Wake Forest University, Institute for Regenerative Medicine

Haibin Guo MD PhD, Lei Dou MD PhD, Nan Deng MD PhD, Huifeng Ding MD PhD, Anthony Atala MD

<https://drive.google.com/open?id=1oUCKQInyBKyrqKQk4A-ysxoROSF3ALxN>

PS1-12

Impaired Regeneration Potential of Urine-derived Stem Cells in Chronic Kidney Disease

Yuanyuan Zhang MD, PhD, Associate Professor, Wake Forest University, Institute for Regenerative Medicine

Geng Xiong MD PhD, Weiqing Tang MD PhD, Anthony J. Bleyer MD Nephrologist, Professor, Michael E. Bleyer Medical student, Antony Atala MD Urologist, Professor, Joseph A. Aloji MD, Endocrinologist Professor, Cristina M. Furdui PhD Professor

<https://drive.google.com/open?id=1d3O2JNDOa3daUESYxoDQh6lkDxF9kTBW>

PS1-13



Prostatic fibrosis is coupled to a mesenchymal IL4/IL13 autocrine loop

2019 Travel Award Winner

Mathilde L. Bonnemaïson Ph.D., University of Massachusetts Boston

Mehrnaz Gharaee-Kermani Ph.D., Jill A. Macoska Ph.D.

<https://drive.google.com/open?id=1-aeOyFUbvllC3eD10Dzy0OHazP2HBmRe>

PS1-14

Targeting P2X4 Purinergic Receptors in Aggressive Prostate Cancer

Janielle P. Maynard, PhD, Johns Hopkins University

Tamirat Ali, Angelo M. De Marzo, MD, PhD, Karen S. Sfanos, PhD

<https://drive.google.com/open?id=1rnQUZqVBi-VGYuKKvbKRSnfgFC4TTF50>

PS1-15

Expansion of Luminal Progenitor Cells in the Aging Mouse and Human Prostate

Preston D. Crowell, University of California, Los Angeles

Jonathan J. Fox, Takao Hashimoto, Johnny A. Diaz, Gervaise H. Henry, Matthew G. Lowe, Ye E. Wu, Douglas W. Strand, Andrew S. Goldstein

https://drive.google.com/open?id=1jzloSNV43u_WJknG4ioD-Exs51oWjrD6

PS1-16

Methylation of SRD5A2 promoter predicts a better outcome for castration-resistant prostate cancer patients undergoing androgen deprivation therapy

Zongwei Wang, PhD, Harvard University

Tuo Deng, M.D., Xingbo Long, M.D., Xueming Lin, M.D., Shulin Wu, M.D., Hongbo Wang, Ph.D., Rongbin Ge, M.D., Zhenwei Zhang, Ph.D., Chin-Lee Wu, Ph.D, M.D. , Mary-Ellen Taplin, M.D. , Aria F. Olumi, M.D.

<https://drive.google.com/open?id=19a90P8MMDfMTqzwSJyab6f5DiczWVJr>

PS1-17

Obesity-associated inflammation induces androgenic to estrogenic switch in the prostate gland

Zongwei Wang, PhD, Harvard University

Bichen Xue, MD, Shulin Wu, MD, Shahin Tabatabaei, MD, Chin-Lee Wu, MD, Zhiyong Cheng, MD, Li Xin, MD, Douglas Strand, MD, Aria F. Olumi, MD, Zongwei Wang, PhD

<https://drive.google.com/open?id=1d9TpBnRYhCMgyv95oPY494QgeJPoSm1->

PS1-18

Development of CRISPR human Skp2 knock-in in the prostate of mouse and the associated prostate organoids for testing Skp2 targeting agents

Liankun Song, postdoctoral scholar, University of California, Irvine

Xiaolin Zi, professor, Shan Xu, pathologist, Kia Arabzadehkaffash, undergraduate student, Ali Fazelpour, undergraduate student, Dongjun Fu, postdoc, Matthew Tippin,

<https://drive.google.com/open?id=1qzrvuhsKuWpwL0sWPVzWiIM4i4oonffH>

PS1-19

Lymphocyte Mediated Luminal Progenitor Cell Expansion in the Aging Prostate

Hector Ivan Navarro, Ph.D. Student, University of California, Los Angeles

Andrew Goldstein, Ph.D. -Principal Investigators

<https://drive.google.com/open?id=1Jttqi2lYnYg7-HUGdW7v5Zvcy72yWHmT>

PS1-20



The Role of UDP-glucuronosyl transferase 2B28 in Prostate Cancer

2019 Travel Award Winner

Anindita Ravindran, BS - Graduate student, Baylor College of Medicine

Akash Kaushik, PhD - Postdoctoral associate, UT Southwestern Medical Center, Arun Sreekumar, PhD ,Assistant Professor, Baylor College of Medicine, Nagireddy Putluri, PhD ,Assistant Professor, Baylor College of Medicine, Truong Dang, BS - Research technician, Baylor College of Medicine David Rowley, PhD - Professor, Baylor College of Medicine, Michael M Ittmann, PhD - Professor, Baylor College of Medicine, Uttam Rasaily, MS - Research technician, Baylor College of Medicine, Chandrashekar Reddy Ambati, MS - Research technician, Baylor College of Medicine, Nancy Weigel, PhD - Professor, Baylor College of Medicine, Balasubramanyam Karanam, PhD ,Assistant Professor, Tuskegee University

<https://drive.google.com/open?id=1Jttqi2lYnYg7-HUGdW7v5Zvcy72yWHmT>

PS1-21

Nuclear factor I/B increases in prostate cancer to support androgen receptor activation

Jagpreet Singh Nanda, Postdoctoral fellow, Department of Urology, Case Western Reserve University

Wisam N. Awadallah, Research Assistant, Department of Urology, Case Western Reserve University, Sarah E. Kohrt, Graduate Student, Department of Pharmacology Case Western Reserve University, Petra Popovics, K12 Scholar, Department of Urology, University of Wisconsin School of Medicine and Public Health, Justin M. M. Cates, Department of Pathology, Microbiology, and Immunology, Vanderbilt University Medical Center Janni Mirosevich, Department of Urology, Vanderbilt University Medical Center, Peter E. Clark, Department of Urology Levine Cancer Center/Atrium Health, Giovanna A. Giannico, Department of Pathology, Microbiology, and Immunology, Vanderbilt University Medical Center Magdalena M. Grabowska, Assistant Professor, Case Western Reserve University

<https://drive.google.com/open?id=1wamU5x9u7wHleqeDWDsyZSHWsw4lINFB>

PS1-22

Macrophage recruitment, activation and neural cross-talk are associated with development and maintenance of chronic pelvic pain

Dr. Zhiqiang Liu, Department of Urology, Feinberg School of Medicine, Northwestern University

Dr. Stephen F. Murphy, Department of Urology, Feinberg School of Medicine, Northwestern University, Larry Wong, Department of Urology, Feinberg School of Medicine, Northwestern University, Dr. Anthony J. Schaeffer, Department of Urology, Feinberg School of Medicine, Northwestern University, .Dr. Praveen Thumbikat, Department of Urology, Feinberg School of Medicine, Northwestern University

https://drive.google.com/open?id=1-q6p_rzYGK-7AWr4MCKDHQzbyaFS1I_F

PS1-23

Epigenetic modifications drive autoimmunity in CPPS

Stephen F Murphy, Ph.D., Department of Urology, Feinberg School of Medicine, Northwestern University

Dr. Anthony J. Schaeffer, MD, Dr. Praveen Thumbikat, DVM, PhD

<https://drive.google.com/open?id=1HQ42L0kTEdqSE5sqUSpMqtwLujFgpA2P>

PS1-24



Urinary Metabolites for the Risk Stratification of Prostate Cancer

2019 Travel Award Winner

Qin Gao Ph.D., Postdoctoral Researcher, University of Texas at El Paso

Xiaogang Su Ph.D., Professor, University of Texas at El Paso, Heinric Williams, M.D., FACS, Physician, Geisinger Medical Center, Michael Hani Annabi, M.D., Physician, The Clinic Internal Medicine, Wen-Yee Lee Ph.D., Associate Professor, University of Texas at El Paso

<https://drive.google.com/open?id=1TeSctk-LitCC0IYI5rCho7s-1IsMt7F8>

PS1-25

Application of Urinary Volatile Organic Compounds for the Diagnosis of Renal Cancer

Wen-Yee Lee Ph.D., Associate Professor, University of Texas at El Paso

Qin Gao Ph.D., Postdoctoral Researcher, University of Texas at El Paso, Xiaogang Su Ph.D., Professor, University of Texas at El Paso, Heinric Williams M.D., FACS, Physician, Geisinger Medical Center

https://drive.google.com/open?id=19YoRrxMv7xH_JhWu2bJpvSSfpuJQFPq0

PS1-26



MAP3K11 drives in vitro enzalutamide resistance in castration-resistant prostate cancer
2019 Travel Award Winner

Sarah Kohrt, Case Western Reserve University
Wisam Awadallah, Magdalena Grabowska, PhD

<https://drive.google.com/open?id=1N-gn-wQCKyKtj-N07nTCGfHpariq9jA>

PS1-27

Therapeutic potential of targeting macrophages in castration resistant prostate cancer
Asmaa El-Kenawi, PhD, Moffitt Cancer Center
Additional Authors - William Dominguez Viqueira, PhD Lee Noel Brian Ruffell, PhD

<https://drive.google.com/open?id=18v-TiZlx6tdCNaDA9vxnBHqwBpp-7d8E>

PS1-28

LSD1-mediated demethylation of FOXA1 regulates AR cistrome in Prostate Cancer
Shuai Gao Ph.D, Research Assistant Professor, University of Massachusetts-Boston
Sujun Chen, Dong Han, Zifeng Wang, Muqing Li, Wanting Han, Anna Besschetnova, Feng Zhou, David Barrett, My Phu Luong, Jude Owiredo, Yi Liang, Musaddeque Ahmed, Jessica Petricca, Jill A. Macoska, Eva Corey, Sen Chen, Steven P. Balk, Housheng Hansen He, and Changmeng Cai

<https://drive.google.com/open?id=1LxpKGEITq8lm5kwjUaC5UBxdSOehTQW>

PS1-29

CCL25 neutralization enhances efficacy of Docetaxel in preclinical prostate cancer model
Hina Mir, PhD., Morehouse School of Medicine
Neeraj Kapur, PhD., Sejong Bae, PhD., Guru Sonpavde, MD, James W. Lillard, Jr., PhD., MBA and Shailesh Singh, PhD.

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PS1-30



Differential role for SIRT1 in prostate cancer development and progression
2019 Travel Award Winner

Shih-Bo Huang, MS, University of Texas Health Science Center at San Antonio
Dinesh Thapa, PhD, Amanda R Muv±oz, PhD, Suleman S. Hussain, PhD, Xiaoyu Yang, MS, Roble G Bedolla, MD, Zhao Lai, PhD, Yidong Chen, PhD, Paul Rivas, Claire Shudde, Pawel Osmulski, PhD, Maria Gaczynska, PhD, Robert L Reddick, MD, Hiroshi Miyamoto, MD, PhD, Rita Ghosh, PhD, Addanki Pratap Kumar, PhD

<https://drive.google.com/open?id=1vJlpPfrAyfuE-vmrphdKqIUae6Vxpr>

PS1-31

Loss of Androgen Receptor in Prostate Cancer Stroma Inhibits Luminal Epithelial Differentiation
Shekha Tahsin, Cancer Biology Graduate program, University of Arizona
Linan Jiang, Research Assistant Professor, Aerospace and Mechanical Engineering; Yitshak Zohar, Professor, Aerospace and Mechanical Engineering, Cindy K. Miranti, Professor, Cellular and Molecular Medicine

<https://drive.google.com/open?id=1XFVUWhS8p8AKiayMwi8mLzIXb4f2YPN5>

PS1-32

Decreased glucose bioavailability and elevated aspartate metabolism in prostate cancer cells undergoing epithelial-mesenchymal transition

Yule Chen, PhD, MD, Department of Urology, The First Hospital of Xi'an Jiaotong University

Ke Wang PhD, Lei Li, PhD, MD

https://drive.google.com/open?id=1PUEjzX1gaSAzdITu2XO3tiwjBJiZs_P

PS1-33

Exogenous testosterone and estradiol prolong prostate smooth muscle relaxation via downregulation of MYPT2: a novel utility for genetically encoded calcium receptors

Anne E Turco, University of Wisconsin-Madison

Steven R Oakes, Allison Rodgers, Celeste Underriner, Mark Cadena, Richard E Peterson, Laura Hernandez, Tim Hacker, Nathan Tykocki, Chad M Vezina

<https://drive.google.com/open?id=1EkszMvJXgKwqhV2j-jQelKJ4AZ6nBuTP>

PS1-34

Temporal Analysis of Signaling Events Leading to Bladder Remodeling after Spinal Cord Injury

Ali Hashemi, PhD, Harvard Medical School/Boston Childrens Hospital

Bryan S. Sack, MD, Mary Piper, PhD, Justin F. Cotellessa, PhD, Claire Doyle, PhD, Mehrnaz Gharaei-Kermani, PhD, Amy Avery, PhD, Vivian Cristofaro, PhD, Maryrose P. Sullivan, PhD, Fiona C. Burkhard, MD, Katia Monastyrskaia, PhD, Jill A. Macoska, PhD, Rosalyn M. Adam, PhD

https://drive.google.com/open?id=1Cd80Guw_slleFzLzzQvgNeOwX0VSwm6O

PS1-35

Development of a Whole-Urine, Multiplexed, Next Generation RNA-Sequencing Assay for the Early Detection of Aggressive Prostate Cancer

Dr. Simpa Salami, MD, MPH, University of Michigan

Andi K. Cani, Kevin Hu, Javed Siddiqui, Yingye Zheng, PhD Sumin Han, PhD, Srinavas Nallandhighal, Trinh Pham, Chia-Jen Liu, Daniel H. Hovelson, PhD, Lanbo Xiao, PhD, Heng Zheng, Jeffrey J. Tosoian, MD, Ganesh S. Palapattu, MD, FACS, Todd M. Morgan, MD, Aaron Udager, MD, PhD, Arul M. Chinnaiyan, MD, PhD, John T. Wei, MD, Scott A. Tomlins.

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PS1-36



Targeting steroid sulfatase with novel inhibitors suppresses CRPC tumor growth and improves response to enzalutamide

2019 Travel Award Winner

Cameron M. Armstrong, PhD, UC Davis

Chengfei Liu, MD, PhD, Liangren Liu, MD, Joy C. Yang, PhD, Wei Lou, MD, Christopher P. Evans, MD, Pui-Kai Li, PhD, Allen C. Gao, MD, PhD

https://drive.google.com/open?id=1v2P8pcjWcvU2XnCq5eflFNM4Ty73Sc_8

PS1-37

Role of mast cells in an uropathogenic Escherichia coli induced model of lower urinary tract symptoms associated with benign prostatic hyperplasia

Goutham Pattabiraman, Ph.D., Northwestern University

Daniel J. Mazur, Ph.D., Joseph D. Done, B.S., Ashlee Bell-Cohn, B.S., Anthony J Schaeffer, M.D., Praveen Thumbikat, Ph.D., D.V.M.

<https://drive.google.com/open?id=1j8a6lshvXb6bc4u7xlAAaPDVIAAlk4eh>

PS1-38

A Novel Syngeneic Mouse Model of Prostate Cancer Bone Metastasis: Mechanisms of Chemotaxis and Bone Colonization
Srinivas Nandana, Assistant Professor, Dept. of Cell Biology and Biochemistry, Texas Tech University Health Sciences Center, Lubbock

Murali Gururajan, Manisha Tripathi, Chia-Yi Chu, Haiyen E. Zhou, Stephen L. Shiao, Leland W.K. Chung

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PS1-39



A genetically defined tumor model characterizes small cell carcinoma of the bladder

2019 Travel Award Winner

Liang Wang, Ph.D., University of California, Los Angeles

Bryan A. Smith, Ph.D.; Nikolas G. Balanis, Ph.D.; Brandon L. Tsai, B.S.; Kim Nguyen, B.S.; Michael W. Cheng; Matthew B. Obusan, B.S.; Favour N. Esedebe, B.S.; Saahil J. Patel, B.S.; Hanwei Zhang, Ph.D.; Peter M. Clark, Ph.D.; Anthony E. Sisk, DO; Jonathan W. Said, MD; Jiaoti Huang, MD, Ph.D.; Thomas G. Graber, Ph.D.; Owen N. Witte, MD; Arnold I. Chin, MD, Ph.D.; Jung Wook Park, Ph.D.

<https://drive.google.com/open?id=11acBMMjGFyDYokxzmFfa1QjIM3hKC475>

PS1-40



Identification of a Novel PRC2 Complex as a Therapeutic Target in Castration Resistant Prostate Cancer

2019 Travel Award Winner

Ka-Wing Fong PhD, Northwestern University

Jonathan C. Zhao, PhD, Xiaodong Lu, PhD, Jung Kim, PhD, Andrea Piunti, PhD, Rakshitah Jagadish, MS, Jindan Yu, MD PhD

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PS1-41

Fibroblasts accumulate and produce collagen in dogs prone to prostate related urinary dysfunction

Hannah Ruetten, University of Wisconsin- Madison

*Marlyse Wehber*1,2, Clara Cole*1,2, Mark Cadena2, Kyle A. Wegner2,3, Michael F. Romero4, Michael W. Wood5, Sara A. Colopy6, Dale E. Bjorling6, and Chad M. Vezina1,2,3*authors contributed equally to this project, Department of Comparative Biomedical Sciences, School of Veterinary Medicine, University of Wisconsin- Madison, George M. O'Brien Benign Urology Center, University of Wisconsin- Madison, Molecular and Environmental Toxicology Center, School of Medicine and Public Health, University of Wisconsin- Madison, Physiology and Biomedical Engineering and Nephrology and Hypertension, George M. O'Brien Urology Research Center, Mayo Clinic College of Medicine and Science, Rochester, MN, Department of Medical Sciences, School of Veterinary Medicine, University of Wisconsin- Madison, Department of Surgical Sciences, School of Veterinary Medicine, University of Wisconsin- Madison*

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PS1-42

A Retrospective Medical Record Review of Benign Prostatic Hyperplasia in a Well-Defined Population of Client-Owned Dogs: Clinical Presentation, Prevalence of Concurrent Bacterial Infection, and Response to Treatment

Hannah Ruetten, University of Wisconsin- Madison

Clara Cole^{1,2}, Marlyse Wehber*^{1,2}, Simran Sandhu^{1,2}, Steven R. Oakes^{1,2,3}, Kenneth Waller III⁴, Chad M. Vezina^{1,2,5}, and Katrina Viviano⁶*authors contributed equally to this project. ¹Department of Comparative Biosciences, School of Veterinary Medicine, University of Wisconsin-Madison, Madison, WI, ²University of Wisconsin-Madison/UMASS Boston George M. O'Brien Center for Benign Urologic Research, Madison, WI and Boston, MA, ³Department of Biomedical Engineering, College of Engineering, University of Wisconsin-Madison, Madison, WI ⁴Department of Surgical Sciences, School of Veterinary Medicine, University of Wisconsin-Madison, Madison, WI ⁵Molecular and Environmental Toxicology Center, University of Wisconsin-Madison, Madison, WI ⁶Department of Medical Sciences, School of Veterinary Medicine, University of Wisconsin-Madison*

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PS1-43



Estrogen mediated racial disparity in men with benign prostatic hyperplasia

2019 Travel Award Winner

Teresa T Liu, PhD, University of Wisconsin – Madison

Emily A. Ricke, MA, Douglas Strand, PhD, Rajiv Dhir, M.D., MBA, William A. Ricke, Ph.D.

<https://drive.google.com/open?id=1KBYLoyuuZsRdNsp1VdRnD6kCdFb7F8ut>

PS1-44

Inhibition of EZH2 enhances the antitumor efficacy of metformin in prostate cancer

Yifan Kong

https://drive.google.com/open?id=1nK1anU_UhcOgNC5BXY78njmWX1cBdmg

PS1-45

Screening of histone post-translational modifications in castration resistant prostate cancer reveals CHD1 gene deficiency engenders a distinct epigenetic profile

Joseph Gawdzik PhD, University of Wisconsin

Additional Authors - Eric Armstrong MS, Bing Yang PhD, Rehann Machhi, John Denu PhD, David Jarrard MD

<https://drive.google.com/open?id=1QLXdaAUCvembkeSsdv91Er7VifuyaNe6>

PS1-46

Methoxychalcone derivative as a potent inhibitor of aggressive prostate cancer through glycolytic targeting

Meghan A. Rice, PhD, Stanford University

Vineet Kumar, PhD, Dhanir Tailor, PhD, Fernando Jose Garcia Marquez, PhD, Abel Bermudez, Zintis R. Inde Vijaya Kanchustambham, PhD, Ali Ghoochani, PhD, Rosalie Nolley, Mallesh Pandrala, PhD, Angel Resendez, PhD, Merve Aslan, MS, Arushi Agarwal, Mark Buckup, Shiqin Liu, MD PhD, En-Chi Hsu, PhD, Catherine Going, PhD, Donna Peehl, PhD, Scott J. Dixon, PhD, Richard Zare, PhD, James D. Brooks, MD, Sharon Pitteri, PhD, Sanjay Malhotra, PhD, Tanya Stoyanova, PhD

<https://drive.google.com/open?id=1jIYsIX9Sbkzna5LkktZFnuMKEKLnTPP>

PS1-47

Development of Lidocaine-Eluting Catheter Catheter-Induced Bladder Pain

Eun Bi Jang, Department of Urology, Hanyang University College of Medicine, Seoul, Korea

Ji Young Lee, Young Eun Yoon, Sung Yul Park, Hong Sang Moon, Department of Urology, Hanyang University College of Medicine, Seoul, Korea

https://drive.google.com/open?id=1GhJIFu03ULPN_xz_wbG02yC-wBXpc3O

PS1-48

The impact of ginsenoside and everolimus use on renal cell carcinoma

Ji-Young Lee, Department of Urology, Hanyang University College of Medicine, Seoul, Korea

Dae Keun Kim, Sung Yul Park, Young Eun Yoon, Department of Urology, Hanyang University College of Medicine, Seoul, Korea

https://drive.google.com/open?id=1NeMXX67mFlf2RTu0a_iV_sBD_JG5VTr

PS1-49

The Anticancer Effect of Ginsenoside Rg3 and Rh2 in Renal Cell Carcinoma

Ji-Young Lee, Department of Urology, Hanyang University College of Medicine, Seoul, Korea

Dae Keun Kim, Sung Yul Park, Young Eun Yoon, Department of Urology, Hanyang University College of Medicine, Seoul, Korea

https://drive.google.com/open?id=1oechKque5q-KKd_lgud-dlbhkGdDwHI

PS1-50



A preclinical study of the combination treatment of high-dose testosterone and CDK4/6 inhibitors in CRPC
2019 Travel Award Winner

Wanting Han, University of Massachusetts Boston

Anthia A Toure, Dong Han, Postdoctoral Fellow, Shuai Gao, Research Assistant, Professor Changmeng Cai, Assistant Professor

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PS1-51

Prostate Neuroendocrine Cell Serotonin Aids to Prevent Microbial Infection

Mark Cadena, University of Wisconsin - Madison

Jonathan Zhu - UW-Madison Summer Program in Undergraduate Urology Research, Madison, WI; Peiqing Wang - Cardiovascular Research Center, Madison, WI; Celeste Underriner - UW-Madison Molecular and Cellular Pharmacology Graduate Program, Madison, WI; Laura Hernandez - UW-Madison Dept. of Dairy Science, Madison, WI; Nathan Tykocki - University of Vermont Dept. of Pharmacology, Burlington, VT; Tian Shen - University of Columbia Dept. of Medicine, New York City, NY; Jonathan Barasch - University of Columbia Dept. of Medicine, New York City, NY; Michael Romero - Mayo Clinic College of Medicine & Science, Dept. of Physiology & Biomedical Engineering and Nephrology & Hypertension, Rochester, MN; Chad Vezina - UW-Madison Dept. Comparative Biosciences, Madison, WI

<https://drive.google.com/open?id=1B9rqDYg9dSc-zjloxF-JEbkeHRGKxVYU>

PS1-52



Sanguinarine (SNG) is a novel dual-inhibitor of Lysine-specific demethylase 1A (LSD1) and androgen receptor (AR) against castration-resistant prostate cancer

Victor Pham, University of California, Irvine

2019 Travel Award Winner

Victor Pham, Vinh X Le, Dongjun Fu, Thanh NH Le, Marvin Miller, Matthew Tippin, Liankun Song, Xiaolin Zi

<https://drive.google.com/open?id=1s7C1S4veFOYBn3fSqsNgKlTtXgnabjTQ>

PS1-53

Characterization of a novel androgen receptor variant, VBI-1, in bladder cancer

Kimberley D. Katleba, PhD, University of California, Davis

Alan P. Lombard, PhD, Chris A. Lucas, Kristine S. Nishida, Han Bit Baek, Paramita Ghosh, PhD, Maria Mudryj, PhD

https://drive.google.com/open?id=1msQzQZ7l20Yr_LoBCH4LEzIP1N87yENq

PS1-54

Molecular determinants for enzalutamide-induced oncogenic transcription in prostate cancer

Fuwen Yuan, Duke University

William Hankey (postdoctoral fellow), Dayong Wu (research associate), Hongyan Wang (senior research scientist), Jason Somarelli (medical instructor), Andrew J. Armstrong (professor), Jiaoti Huang (professor), Zhong Chen (assistant professor), Qianben Wang (professor)

<https://drive.google.com/open?id=1cXlsgyvRiVdZQpOBnhVQ8kRIHBrG8gzH>

PS1-55

Big-data analysis reveals a role of opiorphin encoding genes in prostate cancer and possible genetic mechanisms modulating tumor growth and androgen-sensitivity

Dr. Kelvin P. Davies, Albert Einstein College of Medicine

Dr. Amarnath Mukherjee, Mr. Augene Park

<https://drive.google.com/open?id=1VVzzSDx9UoMQBPDIAdXhM3inRbZe3qXx>

PS1-56

Hit-to-Lead Optimization of a First-in-Class FKBP52 inhibitor for the Treatment of Castration Resistant Prostate Cancer

Ashley Nichole Payan - PhD Student, University of Texas at El Paso

Naihsuan C. Guy, Marc B. Cox – PI

https://drive.google.com/open?id=14yjQP8-RAUllcLwvPSbgz4_a_vKbgvT

PS1-57

Facilitating Biological and Clinical Discoveries Using The Prostate Cancer Transcriptome Atlas

Sungyong You PhD, Assistant Professor in Surgery and Biomedical Sciences at Cedars-Sinai Medical Center

Minhyung Kim Ph.D., a Post-doctoral fellow in Surgery and Biomedical Sciences at Cedars-Sinai Medical Center, Junhee Yoon M.S., a Software engineer in Surgery and Biomedical Sciences at Cedars-Sinai Medical Center, Jayoung Kim Ph.D., Associate Professor in Surgery and Biomedical Sciences at Cedars-Sinai Medical Center, Michael R Freeman Ph.D., Professor in Surgery and Biomedical Sciences at Cedars-Sinai Medical Center

https://drive.google.com/open?id=1TMy6PR_HtoHrZ6VM6msTwfFr-N5WFXb-

PS1-58

Upregulation of Androgen Receptor Splice Variants ,À an Inevitable Response to Androgen-Directed Therapies?

Tianfang Ma, Graduate Student, Tulane University - Biomedical Sciences Graduate Program

Shanshan Bai, Graduate student, Jinlin University - College of Life Science; Nathan Ungerleider, Postdoc Fellow, Tulane University - Dpt. Pathology; Yang Zhan, Associate Professor, Jinlin University - College of Life Science; Yan Dong, Professor, Tulane University - Dpt. Structural and Cellular Biology; Erik Flemington, Professor, Tulane University - Dpt. Pathology

https://drive.google.com/open?id=1cjsCmTM47A7Dn_cUklI5k8trU4wWYYC8

PS1-59

Developing New Bone Metastasis Models through Tissue-Engineering and Microfluidics

Bethany Kerr, Ph.D., Assistant Professor, Wake Forest School of Medicine

Koran Harris, Graduate Student, Chirayu Patel, Graduate Student, Alexander Jinnah, Graduate Student, Ellen Quillen, Assistant Professor, Arvind Chandrasekaran, Assistant Professor

https://drive.google.com/open?id=1AW8k9w_3D36OavxKr05Cbrn_2f4N-3gF

PS1-60

MicroRNAs in metastatic lymph node as diagnostic tool for prostate cancer

Jenie Marian Cruz Burgos, PhD Student, Universidad Nacional Autonoma de Mexico

Dr. Jorge Gustavo Morales Montor PhD Student, Sergio Alberto Cortez Ramirez PhD student, Carlos David Cruz Hernandez Medical Student. Samantha Ivone Trujillo Bornios MSc., Alberto Losada Garcia Pl. Mauricio Rodriguez Dorantes

https://drive.google.com/open?id=1NpJ-_8l2h7f05zF1vBIEdFb2cx0DZd-z

PS1-61

WLS Promotes Cellular Viability and Resistance to Enzalutamide in CRPC

Alan P Lombard, PhD, University of California, Davis

Chengfei Liu, MD PhD, Cameron M Armstrong, PhD, Leandro S D'Abronzio, PhD, Wei Lou, MD, Christopher P Evans, MD, Allen C Gao, MD PhD

https://drive.google.com/open?id=1WzM7hLTaDyYF-eyj_ILdzqc_BtDJwEfV

PS1-62

Metabolic Re-wiring in African-American Prostate Cancer: A Role for Adenosine-Inosine Axis in Tumor Progression

Christy Charles, Graduate Student, Baylor College of Medicine

Jie Golkhe, Baylor College of Medicine, Stacy Lloyd, Baylor College of Medicine, Uttam Rasaily, Baylor College of Medicine, James Henderson, University of Michigan, Balasubramaniam Karnam, Tuskegee University, Nora Navone, MD Anderson Cancer Center, Rick Kittles, City of Hope Comprehensive Cancer Center, Stefan Ambs, National Cancer Institute, George Michaelidis, University of Florida, Nagireddy Putluri, Baylor College of Medicine, Arun Sreekumar, Baylor College of Medicine

https://drive.google.com/open?id=1bxWJJKZBdyHXNg_hE7jU0_ehpjNabcCG

PS1-63

PIK1 inhibition enhances the efficacy of BET epigenetic reader blockade in castration-resistant prostate cancer

Fengyi Mao, Graduate student, University of Kentucky

Fengyi Mao, Dr. Jie Li, Ruixin Wang, Yifan Kong and Dr. Xiaoqi Liu

<https://drive.google.com/open?id=1yplcw-n-w85Vejho4PFNfipH6PE3zJxQ>

PS1-64

Urinary Bacteria Meet Heme Metabolism at the Bladder Surface

Jonathan Barasch MD PhD, Columbia University

Tian Shen PhD; Katherine Xu PhD; Yuanji Li BA; Ali Gharavi MD; Anne Catrine Uhleman MD PhD; Cathy Mendelsohn PhD

https://drive.google.com/open?id=1K5wq_Qv2Sptns0bLyy1lhJ6oGv4SRif3

PS1-65

Characterization of Inflammatory Cells in Human Benign Prostatic Hyperplasia

Renee E. Vickman, PhD, NorthShore University Health System

Gregory M. Cresswell, PhD, Nadia A. Lanman, PhD, Meaghan M. Broman, DVM, Omar E. Franco, MD, PhD, Brian T. Helfand, MD, PhD, Alexander Glaser, MD, Timothy L. Ratliff, PhD, and Simon W. Hayward, PhD

<https://drive.google.com/open?id=1rpoMRCzbfM-PVFolocYN4zU4nafBR72u>

PS1-66

p300 inhibition enhances the efficacy of programmed death-ligand 1 blockade treatment in prostate cancer

Dr. Jinghui Liu, University of Kentucky

Dr. Daheng He, Dr. Lijun Cheng, Dr. Karrie Jones, Dr. Dana Napier, Dr. Eun Y. Lee, Dr. Chi Wang and Dr. Xiaoqi Liu

<https://drive.google.com/open?id=1XVC8q22-rAwxxm5aZzeYdlB1QGrLxCqT>

PS1-67

Cranberry's Role in the Prevention of Urinary Tract Infections

Jenaye Wanke, PA-S, University of Texas Medical Branch

Stacey Lopez, PA-S, Lailee Madani, PA-S, Rosalyn Velasquez, PA-S

<https://drive.google.com/open?id=1KDC5uYCrMj77dr4slt1lq7oxBaY8cG2c>

PS1-68

Keratinocyte Growth Factor Blocks Radiation-Induced Cystitis

Rebecca A Georgiadis, University of Pittsburgh

Sridhar T Narla PhD, Caitlin M Schaefer MPH, Daniel Bushnell Carlton M Bates MD

https://drive.google.com/open?id=11UnFc8KDQ7aSQWCqe7FTHl9n5x_bIAJp

PS1-69

The stem cell inhibitor salinomycin decreases colony formation potential and tumor-initiating population in docetaxel-sensitive and docetaxel-resistant prostate cancer cells

Martina Gruber, MSc, Medical University of Innsbruck

Florian Handle, PhD, Zoran Culig, MD

https://drive.google.com/open?id=1j5TqaWS4iPDgsEH8SVMrcvq_cfMgYgEM

PS1-70

FGF-P: A potential mitigator of radiation-induced GI damage

Lori Rice, Ph.D., University of Florida

Steven Swarts, Ph.D., Paul Okunieff, M.D., Dietmar W. Siemann, Ph.D., Bingrong Zhang, DVM, Ph.D., Zhenhuan Zhang, Ph.D., Ashantea Hope, Sharon Lepler

https://drive.google.com/open?id=1FY_pO83ChJ_u6bZOW5FwSxHUdMRXYtS9

PS1-71

PRMT5 cooperates with pICln to function as a master epigenetic activator of DNA double-strand break repair genes

Jake L. Owens, Purdue University

Elena Beketova, Dr. Sheng Liu, Samantha L. Tinsley, Andrew M. Asberry, Xuehong Deng, Dr. Jiaoti Huang, Dr. Chenglong Li, Dr. Jun Wan, Dr. Chang-Deng Hu

<https://drive.google.com/open?id=1DpIKz9VgzNnt11k1uRPsNuGltThrTnec>

PS1-72

KGF reduces injury and accelerates recovery of bladder urothelium after cyclophosphamide

Sridhar T. Narla, PhD, University of Pittsburgh

Daniel S. Bushnell, Caitlin M. Schaefer, MPH, Medhi Nouraie, MD, PhD, Carlton M. Bates, MD

https://drive.google.com/open?id=1gCqtuQZ49_-vd1PtJDefZF-WxCvtGOOZ

PS1-73

Prostate cancer cell phenotypes are stable following PDE5 inhibition in the clinical range but antagonized by supra-physiological concentrations.

William Hankey, Ph.D., Duke University

Benjamin Sunkel, Ph.D., Zhong Chen, Ph.D., Xiaolong Cheng, Ph.D., Jennifer M. Thomas-Ahner, Ph.D., Jeff Groth, B.A., Yue Zhao, M.D., Victor X. Jin, Ph.D., Steven K. Clinton, M.D., Ph.D., Jiaoti Huang, M.D., Ph.D., Qianben Wang, Ph.D.

<https://drive.google.com/open?id=1uN1ePGj6pPfCfjpsjIFGN4lkqoz-gMv>

PS1-74

Overall Survival in Patients with Metastatic Prostate Cancer: Role of Statins and PSA Nadir after Androgen Deprivation Therapy

Salma Siddiqui M.D.

Blythe P. Durbin Johnson, Stanley Yap M.D., Ralph W. deVere White M.D., Paramita Ghosh PhD.

https://drive.google.com/open?id=1fkv_nm1I27KJ-W0glakgkAM3Gd7EI_ai

PS1-75

CRISPRi screen of risk-associated cis-regulatory elements reveals 3D genome dependent causal mechanisms in prostate cancer

Housheng Hansen He - Senior Scientist/Associate Professor, Princess Margaret Cancer Centre

Musaddeque Ahmed - Postdoctoral Fellow, Fraser Soares - Postdoctoral Fellow, Jihan Xia - Graduate Student, Gonghong Wei - Full professor

https://drive.google.com/open?id=1rE1IJTBTKXVZYIEWt_5HCniz9pySqVRV

PS1-76

GATA-2 and Twist-1 as Targets of CREB-1 in Prostate Cancer Development

Kasturi Banerjee, Assistant Scientific Investigator, University of Arizona Cancer Center

McLane Watson, Student, Penny Berger, Technician, Cindy Miranti, Professor/ Principal Investigator

<https://drive.google.com/open?id=1kldHAQy4d8K-dglwO6pu4RiZnBSe9fTF>

PS1-77

The critical role of Interleukin-8 chemokine axis in the development of benign prostatic hyperplasia (BPH)

Diandra K. Smith, MPH, Research Associate, Augusta University

Natasha Venugopal, BS Medical Student (MS2), Martha K. Terris, MD, Chief of Urology, Professor Vinata B. Lokeshwar, PhD, Department Chair Professor Bal L. Lokeshwar, PhD

https://drive.google.com/open?id=1nhAhbAPK8N74Zz87G-7zapN6VE_wJKNG

PS1-78

Defining the Androgen Receptor-dependent transcriptome in bladder tumor cells

Maria Mudryj, University of California, Davis

Kimberly D. Katileba, Ph.D., Christopher A. Lucas, Clifford Tepper, Ph.D., Paramita Ghosh, Ph.D., Maria Mudryj, Ph.D.

<https://drive.google.com/open?id=18BZC2uWExK1iZGDbLsws9DmNzp3IVLiT>

PS1-79

Snail Promotes Neurite Outgrowth in Prostate Cancer Cells

Gabrielle Edwards, Clark Atlanta University

Janae Sweeney, Veronica Henderson, Valerie Odero-Marah

<https://drive.google.com/open?id=1VtxoBaUvj5HDRsVilk7h5o62NdaxCe8J>

PS1-80

Inducible prostate luminal epithelial cell-specific deletion of Cdh1 induces murine prostatic hyperplasia and inflammation and bladder overactivity

Laura E. Pascal, PhD, University of Pittsburgh School of Medicine

Shinsuke Mizoguchi, MD; Marcelo Carratino, PhD; Rajiv Dhir, MD; Wei Chen, PhD; Ke Wang, BS; Daniel Metzger, PhD; Pierre Chambon, PhD; and Zhou Wang, PhD

<https://drive.google.com/open?id=1mvnjismESMACAPQePYp0jXWjH4J1JpMxe>

PS1-81

Foxa1 expression is required for maintenance of superficial umbrella cells in the urothelium

Lauren Shuman, MS, Penn State University

Jenna Buckwalter, Thomas Wildermuth, Klaus Kaestner, Cathy Mendelsohn, David DeGraff

<https://drive.google.com/open?id=1uyrGR1axvbJg3ICpYKNC8bX36TIW5IfE>

PS1-82

Modeling cisplatin resistance in testis cancer with the zebrafish

John T Labin, PhD, University of Texas Southwestern Medical Center

Dreaux Abe, Murtaza Ahmed, Anna Savelyeva, PhD, Douglas W Strand, PhD, James F Amatruda, MD, PhD, Aditya Bagrodia, MD

https://drive.google.com/open?id=1v7DBKllqdss8jTbP_sl5me8MJT-XHsaI

PS1-83

Bladder cancer metabolomics identifies important differences in lipid metabolites between metastatic and non-metastatic tumors

Maria-Malvina Tsamouri, DVM, MSc, PhD student, UC Davis

Marc A. Dall, MD, Shamira Sridharan PhD, Blythe P. Durbin-Johnson PhD, Sili Fan PhD, Paramita M. Ghosh PhD

<https://drive.google.com/open?id=14xDuce9UkgHiSUtil7hWsaP8HTWkWz9Ot>

PS1-84

Androgen deprivation promotes neuroendocrine prostate cancer by activating Wnt/ β -Catenin signaling

Siyuan Cheng, Graduate Assistant-Research, LSUHSC-Shreveport

Shu Yang, Research Associate, Zachary Connelly, Ph.D., Xiuping Yu, Associate Professor

<https://drive.google.com/open?id=1-XvT2Bgj8-7-JRlbdqC3c7sZlmWTNb50>

PS1-85

Synergistic anticancer efficacy of simvastatin and metformin on enzalutamide resistant prostate cancer cells

Eswar Shankar, Case Western Reserve University

Che Jarvis, Sanjay Gupta, PhD

<https://drive.google.com/open?id=1Q3dt3YIN9JI63O8ng5ZaaKE0JGjamq77>

PS1-86

Interaction between cancer cells and bone microenvironment in the bone metastatic progression of prostate cancer

Renjie Jin, MD, PhD, Vanderbilt University Medical Center

Tom Case, BS; Marisol Ramirez-Solano, MS; Alyssa Merkel, MS; Xinchun Zhou, MD, PhD; Qi Liu, PhD; Julie A. Rhoades, PhD

<https://drive.google.com/open?id=1pwE-GY7iqzidFDuSIYfiZB7bIkObAGe>

PS1-87

Extranuclear Nucleolin Induces ITG α 6 expression in Prostate Cancer Independent of Androgen Receptor

Elsa Merit Reyes-Reyes, University of Arizona

Sara Moore, and Cindy K. Miranti

<https://drive.google.com/open?id=1nK0QghqIf9FwvQnWDqoxQa1M6PmR6UZp>

PS1-88

Mechanism and Targeting the Hippo/YAP and NF-Kappa B/RELA Axis in Prostate Cancer Cells

Bekir Cinar, Ph.D., Associate Professor, Center for Cancer Research and Therapeutic Development and Department of Biological Sciences, Clark Atlanta University; Winship Cancer Institute, Emory University

Elijah Said-Bandy, Undergraduate Student, Center for Cancer Research and Therapeutic Development, Clark Marwa Al-Mathkour, PhD Student, Center for Cancer Research and Therapeutic Development and Department of Biological Sciences, Atlanta University; Carlos S. Moreno, PhD. Associate Professor, Department of Pathology and Laboratory Medicine and Biomedical Informatics, Emory University School of Medicine, Winship Cancer Institute, Emory University, Atlanta, Georgia

https://drive.google.com/open?id=1O5_x3vnYFzBrkJWF5L4mEA6xYBKyovsn

PS1-89

Studying Nanoparticle targeting to Prostate Cancer by using Quantum dot Antibody conjugate

Amarnath Mukherjee, Albert Einstein College of Medicine

Augene Park, Mark Schoenberg & Kelvin Davies

<https://drive.google.com/open?id=1VEKjY9z9Gdr69qEsUM7zuTcsmmR0nH8E>

SBUR 2019 Annual Meeting – New Orleans, LA

Poster Session #2

Saturday, November 9, 2019

5:00 -7:00 P.M.

PS2-01

Prostate tumor-derived GDF11 accelerates androgen deprivation therapy-induced sarcopenia

Kent L. Nastiuk, Ph.D., Assistant Professor of Oncology, Department of Cancer Genetics & Genomics and Urology, Roswell Park Comprehensive Cancer Center, Buffalo, New York, USA

Chunliu Pan, Ph.D., Department of Cancer Genetics & Genomics, RPCCC, Neha Jaiswal, Ph.D., Department of Cancer Genetics & Genomics, RPCCC, Yanni Zulia, B.S., Department of Cancer Genetics & Genomics, RPCCC, Shalini Singh, Ph.D., Department of Cancer Genetics & Genomics, RPCCC, James L. Mohler, M.D., Department of Urology, RPCCC, Kevin H. Eng, Ph.D., Department of Biostatistics & Bioinformatics, RPCCC, Joe V. Chakkalakal, Ph.D., Departments of Pharmacology and Physiology, and Biomedical Engineering, University of Rochester Medical Center, Rochester, New York, USA, John J. Krolewski, M.D., Ph.D., Department of Cancer Genetics & Genomics, RPCCC

<https://drive.google.com/open?id=1sPcadsomwtowy4i1d2e12r6ldYBGpWY>

PS2-02

Determining the Roles of DNA Repair Gene Aberrations in Driving the Development and Progression of Prostate Cancer

Sander Frank, PhD, Fred Hutchinson Cancer Research Center

Dmytro Rudoy, Olga Klezovitch, PhD, Valeri Vasioukhin, PhD, Peter Nelson, MD

<https://drive.google.com/open?id=1kBE5fmnxMyhPQbsSj4F6yHtJGvLOVOIU>

PS2-03

Synthetic Lethal Metabolic Targeting of Androgen Deprived Prostate Cancer Cells with Metformin

Bing Yang, PhD Researchers, .Department of Urology, University of Wisconsin-Madison

Shivashankar Damodaran, MD, Surgery resident. Department of Urology, University of Wisconsin-Madison Tariq A. Khemees, MD, Urologic Oncology Fellow, Department of Urology, University of Wisconsin-Madison Mikolaj J. Filon, MD Candidate, School of Medicine and Public Health, University of Wisconsin-Madison Adam Schultz, BS, University of Wisconsin-Madison Joseph Gawdzik, PhD, Department of Urology, University of Wisconsin-Madison Tyler Etheridge, MD, Department of Urology, University of Wisconsin-Madison Dmitry Malin, PhD, Scientist, Department of Medicine, University of Wisconsin-Madison Kyle Richards, MD, Assistant Professor, Department of Urology, University of Wisconsin-Madison Vincent L. Cryns, MD, Professor, Department of Medicine, University of Wisconsin-Madison David F. Jarrard, MD, Professor, Department of Urology, Carbone Comprehensive Cancer Center, Molecular and Environmental Toxicology Program, University of Wisconsin-Madison

<https://drive.google.com/open?id=1rp6D1kXkjlwvlJvbNuo-rsfJtWKh7ENP>

PS2-04

Targeting activation of AMPK suppresses PCa proliferation by regulating lipogenesis with subsequent inhibition of AR expression and activity

Takuma Uo, PhD, University of Washington

Gayani Perera, PhD, Kayode K Ojo, PhD, Wes Van Voorhis, MD, PhD J. Dustin Maly, Ph,D, Cynthia Sprener PhD

https://drive.google.com/open?id=1CcFTuWbEUNutcQ59aEN0Wo_K3yR1Vc9z

PS2-05

Investigating the Role of Rbl2 in Castration-Resistant Prostate Cancer

Jenna Giafaglione, University of California, Los Angeles

Andrew Goldstein, PhD, Paul Boutros, PhD

<https://drive.google.com/open?id=1YO22Ju6leeRUPBorR4jc0Eq3lUexkuRp>

PS2-06

Genetics features of Localized Prostate Cancer in African Americans

Naoya Nagaya, Rutgers Cancer Institute of New Jersey

Jeffrey Rosenfeld, Geuntaek Lee, Isaac Kim

<https://drive.google.com/open?id=1oUmAtvDRwq-oUQaD8ggQoq1eTMhvsddl>

PS2-07

Sulfotransferase SULT2B1b inhibition potently stimulates the expression of immunomodulatory genes in prostate cancer cells

Jiang Yang, Ph.D., Purdue University

Renee E. Vickman Ph.D., Meaghan M. Broman, D.V.M. Sagar Utturkar, Ph.D., Nadia A. Lanman, Ph.D., Timothy L. Ratliff, Ph.D., Professor

<https://drive.google.com/open?id=1ZiYNCHB04nUyDV6A3MfeFWPI6j4x-clB>

PS2-08

Modulation of the Prostate Tumor Microenvironment by Folate-mediated Targeting of Tumor Resident Myeloid Populations

Dr. Gregory Cresswell, Purdue University

Dr. Meaghan Broman, Rami Alfar Dr. Phillip S. Low, Dr. Timothy L. Ratliff

https://drive.google.com/open?id=1r5RGf_sAqZz4ArARjsO3wnr3hr6Xw6jF

PS2-09

Putative tumor suppressor ELL2 is required for proliferation and survival of AR-negative prostate cancer cells

Zhi Wang, MS, University of Pittsburgh

Laura E. Pascal, Ph.D. Uma R Chandran, Ph.D., Srilakshmi Chaparala, M.S. Shidong Lyu, MS Hui Ding, Ph.D. Lin Qi, Ph.D., Zhou Wang, Ph.D

<https://drive.google.com/open?id=14dvJQL0kyrmT2HyUpr49AKstaWUg36kZ>

PS2-10

Novel Roles for Manganese Superoxide Dismutase Polymorphisms in Prostate Cancer

Janae D. Sweeney, Ph.D. Student, Clark Atlanta University

Channing Paller, M.D.; Assistant Professor of Oncology and Urology- Johns Hopkins Valerie Otero-Marah, Ph.D.; Associate Professor of Biological Sciences- Clark Atlanta University

https://drive.google.com/open?id=1RGgt711GJK_03bV1cmrsOEs7HQjaSUmU

PS2-11

Neuroendocrine Marker improves the diagnosis of Prostate Cancer

Johnmesha L. Sanders, University of Louisiana at Monroe

Ajay Kale, Ph.D. Girish V. Shah, Ph.D.

<https://drive.google.com/open?id=1aDKlxh2yT619NSC7uZm65TMtk75Bn3wm>

PS2-12

GWAS and CNV analysis Demonstrate Polygenic Determination of Vesicoureteral Reflux

Miguel Verbitsky, Ph.D., Columbia University

Priya Krithivasan, MSc; Atlas Khan, PhD; Maddalena Marasa, MD; Byum hee Kil, MSc; Adele Mitrotti, MD; Matt G. Sampson, MD; Monica Bodria, MD; Loreto Gesualdo, MD; Giuseppe Masnata, MD; Francesco Scolari, MD; Rik Westland, MD; Joanna Van Wijk, MD; Marijan Saraga, MD; Domenico Santoro, MD; Pasquale Zamboli, MD; Craig S. Wong, MD; Enrico Fiaccadori, MD; Friedhelm Hildebrandt, MD; John M Darlow, MD; David E Barton, MD; Velibor Tasic, MD; Anna Latos-Bielenska, MD; Anna Materna-Kiryluk, MD; Krzysztof Kiryluk, MD; Simone Sanna-Cherchi, MD; Jonathan Barasch, MD PhD; Cathy Mendelsohn, PhD; Ali G. Gharavi, MD

<https://drive.google.com/open?id=1VEgWBqzjSQCoNxVqx-GHe7YgpeoeBbJX>

PS2-13

SLX4IP is Essential for Telomere Maintenance in Neuroendocrine Prostate Cancer

Tawna L. Whited, Department of Pharmacology, Case Western Reserve University

Wisam N. Awadallah, Department of Urology, Case Western Reserve University Magdalena M. Grabowska, Department of Urology, Case Western Reserve University Derek J. Taylor, Department of Pharmacology, Case Western Reserve University

<https://drive.google.com/open?id=1ggsxIKbwfA2RjAh5MMz4dpa9bvjkj3D6>

PS2-14

DNA methylation and DNA methyltransferases contribute to enzalutamide resistance in prostate cancer
Elia Farah, PhD, Purdue University

Lijun Cheng, PhD. Tim Ratliff, and PhD. Xiaoqi Liu

https://drive.google.com/open?id=1fewPCo9ShckggieOukvL_pOsPPdoczOI

PS2-15

Inhibition of EphB4 overwhelms enzalutamide resistance by antagonizing the amplification of AR
Chaohao Li, University of Kentucky

Dr. Xiaoqi Liu

<https://drive.google.com/open?id=1D1FXbVLDkJDMSHs0dQ97bPWriO--t8gV>

PS2-16

Immune Cell Interactions in Benign Prostatic Hyperplasia
Meaghan M Broman D.V.M., Purdue University

Nadia A Lanman Ph.D. Renee E Vickman Ph.D. Simon W Hayward Ph.D. Gervaise Henry M.S. Douglas W Strand Ph.D. Timothy L Ratliff Ph.D

<https://drive.google.com/open?id=1ux78rTpGAYDrodSIvRb8rC2Qnvulsho>

PS2-17

Single Cell Analysis of Luminal Epithelial Cells in the Castrate Prostate Reveals a Unique Population of Candidate Luminal Progenitors
Daniel Moline, University of Chicago

Dr. Donald Vander Griend

<https://drive.google.com/open?id=1tEYs6uz5x2iNRNy1ZNQEO42eAGBDQ8zo>

PS2-18

African American prostate cancer stroma exhibits higher levels of secreted TGF-beta1 and overexpresses GARP but presents with more infiltration of cytotoxic CD8 (+) T cells
Liankun Song, Department of Urology, University of California, Irvine

Shan Xu, Associated Professor of Pathology, Agrawal, Sudhanshu, Project Scientist, Farah Rahmatpanah, Project Scientist, Yuanjie Hu, Assistant Specialist Beverly Wang, Professor of Pathology, Dan Mercola, Professor of Pathology, Michael Lilly, Professor of Medicine and Oncology, Anshu Agrawal, Associated Professor of Medicine and Immunology

<https://drive.google.com/open?id=1ECdS-YsZUbGyIBXkxxnYeH0hJ8y4kVn3>

PS2-19

Mediating EGFR- and ERK-Dependent Enzalutamide-Resistance in Castration-Resistant Prostate Cancer
Thomas M. Steele, UC Davis Medical Center

Maitreyee K. Jathal, Ph.D; Salma Siddiqui, M.D; Sisi Qin, Ph.D; Xubao Shi, Ph.D; Dr. Clifford G. Tepper, Ph.D; Ralph W. deVere White, M.D; Manish Kohli, M.D; Liewei Wang, M.D, Ph.D; Allen C. Gao, M.D. Ph.D; Paramita M. Ghosh, Ph.D

<https://drive.google.com/open?id=1rU915o-QYmvHBB37QASfb2HTYKx7kSLU>

PS2-20

Radiation cystitis modeling: a comparative study of radiation induced bladder fibrosis in different mouse strains

Laura E. Lamb, PhD, Beaumont Health/ Oakland University William Beaumont School of Medicine

Bernadette M.M. Zwaans, PhD; Kyle A. Wegner, BS; Sarah N. Bartolone, MS; Chad M. Vezina, PhD; Michael B. Chancellor, MD; Laura E. Lamb, PhD

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PS2-21

Low concentration BPA, BPS and BPF exposure: genotoxic effect in prostate cancer.

Sergio Alberto Cortes Ramirez, PhD student, Universidad Nacional Autonoma de Mexico (UNAM)

PhD Ana Maria Salazar Martinez , PhD Martha Patricia Ostrosky, Shejet , BS Laura Daniela Palomino Navarrete PhD student Jenie Marian Cruz Burgos , PhD student Carlos David Cruz Hernandez, PhD student Alberto Lozada Garcia, PhD Mauricio Rodriguez Dorantes 1.

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PS2-22

Combination therapy of cisplatin and siRNA GP130 impacts a DNA repair mechanism in bladder cancer

Darryl T. Martin, PhD, Research Scientist, Yale University

Shanshan He, MD, Visiting Scholar, Yale University; Gang Li, PhD, Visiting Graduate Student, Yale University; Andreas G. Schv&sztlein, PhD, Professor of Translational Therapeutics, UCL School of Pharmacy; Robert M. Weiss, MD, Donald Guthrie Professor of Urology, Yale University; and Ijeoma F. Uchehgbu, PhD, Professor of Pharmaceutics, UCL School of Pharmacy

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PS2-23

Sprr2f quenches ROS to protect against ischemia-reperfusion injury in the mouse kidney

Kieu My Huynh, M.S, Stanford University, Department of UROLOGY

Marc Horschman, B.S, Bo Wu, PhD, Anny Wong, PhD, Rosie Nolley, B.S, Hongjuan Zhao PhD, James D. Brooks, MD, Principal Investigator

<https://drive.google.com/open?id=1uWDuDfTy6Zbce2z2pa2Btsk3tJmYYNfS>

PS2-24

Targeting telomere DNA damage for CRPC therapy

Sahn-ho Kim, Assistant Scientist, Henry Ford Health System

Vidyavathi Reddy, Asm Iskander, Clara Hwang, Evelyn R. Barrack, G. and G. Prem-Veer Reddy

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PS2-25

Arsenic Disturbs Prostate Stem-progenitor Cells Homeostasis by Activation of NRF2 Pathway

Dan-Ping Hu, MD, University of Illinois

Lishi Xie, PhD; Wen-Yang Hu, PhD, MD; Dan-Ping Hu, MD; Ye Li, BS; Lynn Birch, MS; Gail S. Prins, PhD

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PS2-26

Bone-resident neutrophils are mediators of prostate cancer growth in bone

Leah M. Cook, PhD, University of Nebraska Medical Center

Diane Costanzo-Garvey, Tyler Keeley, PhD, Adam Case, PhD, Leah M. Cook, PhD

<https://drive.google.com/open?id=13ZKehDWT5D8v4wwRuwaHBeYXdrw-6tP>

PS2-27

Modulating HSP70/STUB1 machinery by novel small molecules overcomes enzalutamide resistance in lethal prostate cancer

Chengfei Liu, MD, PhD, University of California, Davis

Wei Lou, MD, Joy C. Yang, PhD, Shu Ning, MS, Cameron M. Armstrong, PhD, Alan P. Lombard, PhD, Leandro S D'Abronzio, PhD, Clifford Tepper, PhD, Pui-Kai Li, PhD, Christopher P. Evans, MD, Allen C. Gao, MD, PhD

<https://drive.google.com/open?id=1-rVBvgdRE0wncBP5Cj7XLIT0sNnVHS2>

PS2-28

The Trained Immunity-like Epigenetic Memory in Urinary Tract Infection

Chunmin Guo, Boston Children's Hospital, Harvard Medical School

Mingyi Zhao, Songhui Zhai, Xinbing Sui, Zarine Balsara, Hyunwoo Kwon, Zihai Li and Xue Li

<https://drive.google.com/open?id=18Bo3dgSC2cCzPa7wk1MADg1k7MmGIFTu>

PS2-29

Urine extracellular vesicle GATA2 mRNA alone and in a multigene test predicts initial prostate biopsy result

Sandra Santasusagna, PhD, Thomas Jefferson University

Jungreem Woo, Joshua Banks, Ana Dominguez-Andres, Kamlesh Yadav, Raffaella Pippa, Marc Carceles-Cordon, Robert B. Den, Karen E. Knudsen, Lucia Languino, Costas D. Lallas, Grace Luyao, Veronica Rodriguez-Bravo, Ashutosh Tewari, W. Kevin Kelly, Benjamin E. Leiby, Josep Maria Prats, Leonard Gomella, Josep Domingo-Domenech

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PS2-30

Loss of CHD1 promotes chromatin dysregulation leading to heterogeneous mechanisms of resistance to hormone therapy in prostate cancer

Ping Mu, Assistant Professor, UT Southwestern Medical Center

Zeda Zhang^{1,3*}, *Chuanli Zhou*^{2,*}, *Xiaoling Li*^{2,*}, *Spencer Barnes*⁴, *Su Deng*², *Elizabeth Hoover*¹, *Chi-Chao Chen*^{5,6}, *Young Sun Lee*¹, *Choushi Wang*², *Carla Tirado*², *Lauren Metang*², *Yanxiao Zhang*⁷, *Nick Johnson*², *John Wongvipat*¹, *Kristina Navrazhina*⁶, *Zhen Cao*^{1,6}, *Danielle Choi*¹, *Chun-Hao Huang*^{5,6}, *Eliot Linton*¹, *Dapeng Yun*², *Xiaoping Chen*⁸, *Yupu Liang*⁹, *Christopher E. Mason*^{10,11}, *Elisa de Stanchina*⁸, *Wassim Abida*¹³, *Amaia Lujambio*¹⁴, *Sheng Li*¹⁵, *Scott W. Lowe*^{5,16}, *Venkat Malladi*⁴, *Charles L. Sawyers*^{1,16,Ä†}, *Ping Mu*^{2,17,18,19,Ä†}. *Human Oncology and Pathogenesis Program, Memorial Sloan Kettering Cancer Center, New York, NY 10065, USA*². *Department of Molecular Biology, UT Southwestern Medical Center, Dallas, TX 75390, USA*³. *Louis V. Gerstner, Jr. Graduate School of Biomedical Sciences, Memorial Sloan Kettering Cancer Center, New York, NY 10065, USA*⁴. *Bioinformatics Core Facility of the Lyda Hill Department of Bioinformatics, UT Southwestern Medical Center, Dallas, TX 75390, USA*⁵. *Cancer Biology and Genetics Program, Memorial Sloan Kettering Cancer Center, New York, NY 10065, USA*⁶. *Weill Cornell Graduate School of Medical Sciences, New York, NY 10021, USA*⁷. *Ludwig Institute for Cancer Research, La Jolla, CA, USA*⁸. *Department of Molecular Pharmacology, Memorial Sloan Kettering Cancer Center, New York, NY 10065, USA*⁹. *Center for Clinical and Translational Science, Rockefeller University, New York, NY 10065, USA*¹⁰. *Department of Physiology and Biophysics, Weill Cornell Medicine, New York, NY, USA*¹¹. *The HRH Prince Alwaleed Bin Talal Bin Abdulaziz Alsaud Institute for Computational Biomedicine, Weill Cornell Medicine, New York, NY, USA*¹². *The WorldQuant Initiative for Quantitative Prediction, Weill Cornell Medicine, New York, NY, USA*¹³. *Department of Medicine, Memorial Sloan Kettering Cancer Center, New York, NY 10065, USA*¹⁴. *Department of Oncological Sciences, Icahn School of Medicine at Mount Sinai, New York, NY 10029, USA*¹⁵. *The Jackson Laboratory for Genomic Medicine, Farmington, CT 06032, USA*¹⁶. *Howard Hughes Medical Institute, Chevy Chase, MD 20815, USA*¹⁷. *Hamon Center for Regenerative Science and Medicine, UT Southwestern Medical Center, Dallas, TX 75390, USA*¹⁸. *Harold C. Simmons Comprehensive Cancer Center, UT Southwestern Medical Center, Dallas, TX 75390, USA*¹⁹.

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PS2-31

Single Cell Investigation of Patient-Derived Prostate Organoids Reveals Differentiation Protocol Involving Epithelial Integrin Expression Supported by Stromal Collagen

Tara McCray, University of Illinois at Chicago

Larisa Nonn, PhD

<https://drive.google.com/open?id=16tg4RMU2lxw-96XmaCJqUj8duKfWkA>

PS2-32

Vitamin D Inhibits DKK3 To Promote Human Prostate Organoid Differentiation

Tara McCray, University of Illinois at Chicago

Larisa Nonn, PhD, Bethany Baumann, PhD

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PS2-33

Extragenadal androgen biosynthesis associated with variant HSD3B1 (A1245C) allele modulates radiosensitivity in Prostate Cancer cells

Omar Mian, MD, PhD, Cleveland Clinic Foundation

Shinjini Ganguly (PhD), Aysegul Balyimez (PhD), Zaeem Lone (BA), Aimalie Hardaway (PhD), Monaben Patel (MS), Elai Davicioni (PhD), Rahul Tendulkar (MD), Eric Klein (MD), Nima Sharifi (MD), Omar Mian (MD,PhD)

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PS2-34

An orthotopic murine neuroendocrine bladder cancer model offers insights into the phenotypic plasticity of small cell bladder cancer (SCBC)

Omar Y. Mian, M.D., Ph.D, Assistant Professor, Cleveland Clinic

Aysegul Balyimez, Shinjini Ganguly, Sita Laximi, Petros Grivas, Moshe Ornstein, Shilpa Gupta, Byron Lee, Chris McFarland, Monte Winslow, Jesse McKenney

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PS2-35

NAD⁺ metabolism as a potential vulnerability in neuroendocrine prostate cancer

Johnny A. Diaz, UCLA

Preston D. Crowell, Takao Hashimoto M.D., Ph.D, Andrew S. Goldstein Ph.D

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PS2-36

Downregulation of EPHB2 Increases Alterations in Lipid Metabolism Associated with Prostate Cancer Racial Disparities

Omar Franco MD, PhD, NorthShore University Health System

Alejandro Morales BS, Francesca Nardi MS, Susan Crawford MD, Simon Hayward PhD

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PS2-37

Role of polyamine metabolism in prostate cancer therapy resistance

Nagalakshmi Nadiminty, PhD, University of Toledo Health Science Campus

Sayani Bhattacharjee, Jonathan P. Doan, Jerred P. Pletcher, Rebecca Wynn

<https://drive.google.com/open?id=1tiKYUt3bDYRyawtY4dBQfdzb7A599O3g>

PS2-38

BUB1B is a key component of an AR variant-regulated network in castration-resistant prostate cancer

Kerry L. Burnstein, Professor and Chair, Molecular and Cellular Pharmacology, University of Miami Miller School of Medicine

Maria Julia Martinez, Post-doctoral Associate, Valeria A. Copello, Graduate Student, Rolando D.Z. Lyles, Graduate Student

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PS2-39

Roles of retinoid signaling in the developing urothelium

Gregory Wiessner, Columbia University Medical Center

Dr. Ekatherina Batourina, Dr. Carolina Rosselot, Dr. Chad Vezina, Kerry Schneider, Dr. Cathy Mendelsohn

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PS2-40

Role of SLCO1B3 Transporter in Prostate Cancer Cell Resistance to Cabazitaxel Chemotherapy

Diane Begemann, University of Kentucky

Natasha Kyprianou, PhD

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PS2-41

PB-Csf1 is a novel mouse model for prostate inflammation

Li Xin, University of Washington

Ohjoon Kwon, Boyu Zhang, Li Zhang, Xing Wei, and Li Xin

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PS2-42

Adipocyte-dependent lipid/MTOC dysregulation in the prostate tumor microenvironment: A microfluidic approach

Max Greenberg, Research Associate, NorthShore Univ. Research Institute, Affiliate of Univ. of Chicago Pritzker School of Medicine

Victoria Gil, Research Associate, John Day, Graduate Student, Univ. of Washington, Omar E. Franco, Research Scientist, Francesca Nardi, Research Scientist, Philip Fitchev, Research Associate, Simon W. Hayward, Director of Cancer Biology, Ashleigh Theberge, Assistant Professor, Univ of Washington, Susan E. Crawford, Professor of Pathology

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PS2-43

Targeting the WNT5A Receptor, ROR1, in Prostate Cancer

Christina A.M. Jamieson, PhD. Associate Professor, Dept of Urology, University of California, San Diego (UCSD)

Sanghee Lee, Neurourology Fellow UCSD Urology, Danielle N Burner, Lab Technician, Theresa R Mendoza, MSc student, Michelle T Muldong, Senior Research Associate, Abril Zuniga, Undergraduate Albert Scholar, Catalina Arreola, Lab Technician, Christina N Wu, Senior Project Scientist, John J McDermott, Medical student and Albert Scholar, Rekha S Narasimhan, Medical student and Albert Scholar, SungKu Kang, Visiting Scholar, Catriona HM Jamieson, Professor, Nicholas A Cacalano, Associate Professor, Isaac Y Kim, Professor, Karl Willert, Professor, Terry Gaasterland, Professor, Anna A Kulidjian, Associate Professor, Rana Mckay, Assistant Professor, Christopher J Kane, Professor

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PS2-44

Interactions between prostate hormone levels, African ancestry, and gene expression patterns in stroma and epithelium
Bethany Baumann, PhD, University of Illinois at Chicago

Julian Pacheco, Zachary Richards, PhD, Jason Garcia, Rick Kittles, PhD, Larisa Nonn, PhD

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PS2-45

Resistance to AR Signaling Inhibition Does Not Necessitate Prostate Neuroendocrine Differentiation
W. Nathaniel Brennen, Johns Hopkins

*Yezi Zhu², Ilsa Coleman³, Susan Dalrymple¹, Lizamma Antony¹, Alan Meeker^{1,2,4}, S. Lilly Zheng⁵, Jody E. Hooper⁴, Jun Luo², Angelo De Marzo^{1,2,4}, Eva Corey⁶, Jianfeng Xu⁵, Peter S. Nelson^{3,6}, William B. Isaacs², John T. Isaacs^{1,2,4}*Department of Oncology, Sidney Kimmel Comprehensive Cancer Center (SKCCC), Johns Hopkins University, Baltimore, MD 21205, USA. *2*Department of Urology, James Buchanan Brady Urological Institute, Johns Hopkins University School of Medicine, Baltimore, MD 21205, USA. *3*Division of Human Biology, Fred Hutchinson Cancer Research Center, Seattle, WA 98109, USA. *4*Department of Pathology, SKCCC, Johns Hopkins University, Baltimore, MD 21205, USA. *5*Program for Personalized Cancer Care, North Shore University Health System, Evanston, IL, USA. *6*Department of Urology, University of Washington, Seattle, WA 98195, USA

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PS2-46

Integrin $\alpha 6 \beta 1$ super agonist overcomes drug resistance in castration-resistant prostate cancer by targeting laminin adhesion
Marina Cardo Vila, PhD, University of Arizona Cancer Center

Eric A. Nollet PhD, Sourik S. Ganguly PhD, Veronique V. Schulz BS, Scott Peterson PhD, Anne Cress PhD, Eva Corey PhD, Cindy K. Miranti PhD

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PS2-47

The Role of IL33 in Microbial Induced Prostate Fibrosis
Ashlee Bell-Cohn, Northwestern University

Praveen Thumbikat, PhD, DVM

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PS2-48

Characterization of the Metabolomic Profile of Prostate Cancer by Capillary Electrophoresis Mass Spectrometry of Urine
Andrew Gusev, BA, Massachusetts General Hospital

Alex Buko, PhD, Takushi Oga, PhD, Adam S. Feldman, MD, MPH, Leo L. Cheng, PhD

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PS2-49

Effect of the SFRP1 protein on prostate cancer stem cells populations

Alberto Losada-Garcia, MSc., UNAM

Marian Cruz-Burgos, B.D., Sergio Cortes-Ramirez, QFB., Carlos Cruz-Hernandez, MSc., Mauricio Rodriguez-Dorantes, Ph.D.

<https://drive.google.com/open?id=1La5cQeqj0ePwyWrPVA12DoJHgFlhgWee>

PS2-50

FOXA2 Promotes Prostate Cancer Growth in Bone

Zachary M. Connelly, LSUHSC Shreveport

Renjie Jin², Jianghong Zhang², Shu Yang¹, Siyuan Cheng¹, Mingxia Shi³, Justin Cates⁴, Runhua Shi⁵, David J. DeGraff⁶, Peter S. Nelson⁷, Yunlong Liu⁸, Colm Morrissey⁹, Eva Corey⁹, Xiuping Yu^{1} ¹Dept of Biochemistry and Molecular Biology, ³Dept of Pathology, ⁵Dept of Medicine, LSU Health Sciences Center, Shreveport, LA ²Dept of Urology, Vanderbilt University Medical Center, Nashville, TN ⁴Dept of Pathology, Vanderbilt University Medical Center, Nashville, TN ⁶Dept of Pathology, Penn State College of Medicine, Hershey, PA ⁷Fred Hutchinson Cancer Research Center, Seattle, WA ⁸Department of Biochemistry and Molecular Biology, Indiana University, Indianapolis, IN ⁹Dept of Urology, University of Washington, Seattle, WA*

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PS2-51

Loss of CDCP1 promotes FAK activation in the detached state

Sara Pollan, PhD, Cedars-Sinai Medical Center

Beatrice Knudsen, MD, PhD

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PS2-52

Androgen deprivation promotes neuroendocrine differentiation and angiogenesis through CREB-EZH2-TSP1 pathway in prostate cancers

Wenliang Li, Associate Professor, University of Texas Health Science Center at Houston

Yan Zhang, Dayong Zheng, Ting Zhou, Haiping Song, Mohit Hulsurkar, Zheng Wang, Shao Long, Ladan Fazli, Michael Ittmann, Martin Gleave, Wenliang Li

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PS2-53

Effect of radiation cystitis on urinary bladder mechanics

Marissa Grobbel, Ph.D. Student in Mechanical Engineering at Michigan State University

Bernadette M.M. Zwaans, Elijah P. Ward, Laura E. Lamb, Department of Urology, Beaumont Health and Sara Roccabianca, Mechanical Engineering Professor at Michigan State University

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PS2-54

Pharmacogenetic inhibition of afferent excitability alleviates VEGF-induced visceral allodynia and hyperalgesia in a mouse model of urological chronic pelvic pain syndrome (UCPPS)

Alison Xiaoqiao Xie, Ph. D. Instructor, Division of Urology, Department of Surgery, UC Denver

Randall B. Meacham, M.D., Professor, Chair of the Division of Urology, Department of Surgery, UC Denver; Anna P. Malykhina, Ph. D. Associate Professor, Division of Urology, Department of Surgery, UC Denver

<https://drive.google.com/open?id=1Q-3B2wlm1cS3nBXkemOFheZoucTusxY->

PS2-55

Identification of multipotent prostate basal stem cells from single-cell RNA sequencing

Helen He ZHU, Professor, Shanghai Jiao Tong University

Xue Wang, Ph.D. candidate; Wei-Qiang Gao, Professor

<https://drive.google.com/open?id=1lfZo69sh0ux8iP1bK8ke2BcsL7FxocCb>

PS2-56



PRMT5 as a novel target for the treatment of castration-resistant prostate cancer

Elena Beketova, MS, Purdue University

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Jake Owens, BA, Xuehong DengChang-Deng Hu, PhD

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PS2-57

Transcription factor PROX1 drives neuroendocrine differentiation and cellular plasticity in prostate cancer

Kaijie Wu, M.D., Ph.D., Associate Professor, Department of Urology, First Affiliated Hospital of Xian Jiaotong University

Ke Hui, M.D., Ph.D., Shiqi Wu, M.D., Ph.D. candidate Yanan Gu, M.D., Ph.D. candidate, Dalin He, M.D., Ph.D., Professor

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PS2-58



Site Specific DNA Methylation Silences Forkhead Box A1 Expression in Advanced Bladder Cancer

Jenna M. Buckwalter, Ph.D., Penn State Hershey College of Medicine

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Lauren M. Shuman M.S., Thomas C. Wildermuth, Vonn Walter Ph.D., Joshua Warrick M.D., Xue-Ru Wu M.D., Jay Raman M.D., David J. DeGraff Ph.D.

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PS2-59



A novel non-canonical EZH2 function as a chaperone to mediate box C/D snoRNP assembly

Yang Yi, Post-Doctoral Fellow, Northwestern University

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Qingshu Meng, Post-doctoral fellow; Qiaqia Li, Graduate Student; Kaifu Chen, Associate Professor; Wei Zhao, Professor; Qi Cao, Associate Professor

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PS2-60

Repression of Transcription Factor AP-2 Alpha by PPAR gamma Reveals a Novel Transcriptional Circuit in Basal-squamous Bladder Cancer

Hironobu Yamashita, Penn State Hershey Medical Center

Yuka I. Kawasaki, Lauren Shuman, Zongyu Zheng, Truc Tran, Vonn Walter, Joshua I. Warrick, Guoli Chen, Hikmat Al-Ahmadie, Matthew Kaag, Pak Kin Wong, Jay D. Raman, David J. DeGraff

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PS2-61



N-Myc-mediated epigenetic reprogramming drives lineage plasticity in advanced prostate cancer

Nicholas J. Brady, Weill Cornell Medicine

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Adeline Berger, Rohan Bareja, Brian Robinson, Vincenza Conteduca, Michael A. Augello, Loredana Puca Adnan Ahmed, Etienne Dardenne, Xiaodong Lu Nah Hwang, Alyssa M. Bagadion, Andrea Sboner, Olivier Elemento, Jihye Paik Jindan Yu, Christopher E. Barbieri, Noah Dephoure, Himisha Beltran, David S. Rickman

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PS2-62

Fibroblast growth factor receptor 1 in reprogramming cell metabolism in prostate cancer cells

Fen Wang, Ph. D., Texas A&M University

Ms. Yuepeng Ke, Mr. Ziyang Liu, Dr. Sheng Pan

<https://drive.google.com/open?id=1H8uVsFbTb6YnU0-Pb2Mio1r9r66yHL2b>

PS2-63



Identification of cognate proximal cell types of the mouse and human prostate and their enrichment in human

Benign Prostatic Hyperplasia

Diya Binoy Joseph, UT Southwestern Medical Center

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Gervaise Henry, Department of Urology, UT Southwestern Medical Center, Alicia Malewska, Department of Urology, UT Southwestern Medical Center, Kyle Wegner, School of Veterinary Medicine, University of Wisconsin-Madison, Claus Roehrborn, Department of Urology, UT Southwestern Medical Center, Jeffrey Reese, Southwest Transplant Alliance, Dallas, Ryan Hutchinson, Department of Urology, UT Southwestern Medical Center, Chad Vezina, School of Veterinary Medicine, University of Wisconsin-Madison, Douglas Strand, Department of Urology, UT Southwestern Medical Center

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PS2-64

PBRM1 mutation develops a tumor-favoring microenvironment in renal cell carcinoma

Shan Xu, M.D, The First Affiliated Hospital of Xian Jiaotong University

Katie Wu, ph.D, M.D, Lei Li, Ph.D, M.D

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PS2-65

FKHD-Mutant FOXA1 Promotes Androgen Independence and Prostate Cancer Progression

Xiaodong Lu, PhD, Northwestern University

Bohan Xu, PhD; Bing Song, PhD; Jung Kim, PhD; Ming Hu, PhD; Jonathan C. Zhao, PhD; Jindan Yu, PhD

<https://drive.google.com/open?id=1pp7d5pNuZmFgQRh4v2v9aciG6bUS0nBz>

PS2-66



Eukaryotic translation initiation factor 4 gamma 1 (EIF4G1) is upregulated in PCa and promotes resistance to androgen deprivation therapy

Praveen Kumar Jaiswal, Postdoctoral Fellow, LSUHSC-Shreveport

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Sweaty Koul, Kashyap Koul, Runhua Shi, Hari K Koul

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PS2-67

NOX4 is upregulated during PCa progression and plays a key role in hypoxic survival of PCa cells

Saikolappan Sankaralingam, LSUHSC-Shreveport

Binod Kumar, Sweaty Koul, Praveen Kumar Jaiswal, Hari K Koul

<https://drive.google.com/open?id=1sW1ac7HxCGMOxCE1NXw2qa9mqcs7BOTM>

PS2-68

Androgen-sensitive differential expression of cytokines and growth factors in primary BPH stromal cells and normal adjacent stromal cells

Wei Chen, Ph.D, University of Pittsburgh

Laura E. Pascal, Ph.D, Zhou Wang, Ph.D, Rajiv Dhir, MD, Uma Chandran, Ph.D, Zhou Wang, Ph.D, Alex Chang

<https://drive.google.com/open?id=1Jj5p4K8EAMGjnDMLtGVa0NtNC6gnveA5>

PS2-69

Effect of new AR-V7 inhibitor in enzalutamide resistant prostate cancer

Geun Taek Lee, Ph.D., Rutgers Cancer Institute of New Jersey

Naoya Nagaya, MD, Roy J. Vaz, Ph.D., Isaac Yi Kim, MD, Ph.D., MBA

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PS2-70



Osteopontin exacerbates the inflammatory environment in the prostate
Petra Popovics PhD, University of Wisconsin-Madison
2019 Travel Award Winner

Wisam N. Awadallah BS, Sarah Kohrt BS, Thomas C. Case BS, Nicole L. Miller MD, Emily Ricke MS, Marisol Ramirez-Solano MS, Qi Liu PhD, Robert J. Matusik PhD, William A. Ricke PhD and Magdalena M. Grabowska PhD

<https://drive.google.com/open?id=1M0AElTspc1Tci6gzup3X3VqsppNOJ2myGA7pXVIGxXg>

PS2-71

Identification of genes that drive resistance to enzalutamide in castration-resistant prostate cancer cells
Wisam Awadallah, Case Western Reserve University

Sarah Kohrt, Robert A. Philips, Renjie Jin, Xiuping Yu, Jianghong Zhang, Tom C. Case, Peter E. Clark, Robert J. Matusik, Yajun Yi Philip D. Anderson, Magdalena M. Grabowska

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PS2-72

Role of Estrogens in Fibrosis and Myofibroblast Phenoconversion of Prostate Stromal Cells
Christian J. Ortiz Hernandez, Graduate Student, University of Wisconsin-Madison

William A. Ricke, UWMF Professor of Urologic Research and Director of the George M. O'Brien Center for Benign Urology Research

<https://drive.google.com/open?id=10KVicFII6xMsCnE2LZIXTEGmUj-Ng-7S>

PS2-73

Novel role of ketone body metabolism in acquired gemcitabine resistance
Krizia Rohena Rivera, PhD, Cedars Sinai Medical Center

Neil Bhowmick, PhD

https://drive.google.com/open?id=1E_aLKW-JT9hl_K1yhc4g4zWz9rA2NoPV

PS2-74

Tumor Microenvironment Characterization in Bladder Cancer Identifies Prognostic and Immunotherapeutically Relevant Gene Signatures

Tianjie Liu, Department of Urology Research Institute, First Affiliated Hospital of Medical School, Xi'an Jiaotong University

Jin Zeng, Kaijie Wu, Yule Chen, Shan Xu

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PS2-75

SPINK1 is associated with androgen independence in prostate cancer cells
Ikenna Madueke, MD., Ph.D., University of Illinois at Chicago

Wen-Yang Hu, MD.Ph.D., Lishi Xie, Ph.D, Donald Vander Griend, Ph.D, Michael R. Abern, MD, Gail S. Prins, Ph.D.

<https://drive.google.com/open?id=1mYvQENHblXWOoh3hOSq8esqdOWsN42kZ>

PS2-76

Ferroptosis induction as a novel therapeutic approach for advanced prostate cancer

Ali Ghoochani, PhD, Department of Radiology, Canary Center at Stanford for Cancer Early Detection, Stanford University School of Medicine

Fernando Jose Garcia Marques, PhD. Abel Bermudez, BSc. Merve Aslan, MSc. Meghan A. Rice, PhD. En-Chi Hsu, PhD. Sharon J. Pitteri, PhD. Eva Corey, PhD. James D. Brooks, MD. Tanya Stoyanova, PhD.

<https://drive.google.com/open?id=1O5S5XXbIXFkQnLmx116UnHHoSF4QJUNj>

PS2-77

ONECUT2 and its Extremely Long 3' UTR Non-coding Region Cooperate To Drive Aggressive Prostate Cancer

Kenneth Steadman, Cedars-Sinai Medical Center

Sunyong You, PhD, Dustin Srinivas, PhD, Smrruthi V. Venugopal, PhD, Yiwu Yan, PhD, Hisashi Tanaka, PhD Wei Yang, PhD, Michael R Freeman, PhD

<https://drive.google.com/open?id=1oEmNh-5zJHqj3if3NDjXXof46MOxmA7U>

PS2-78

Notch3 promotes Prostate Cancer-Induced Bone Lesion Development by Modulating the Bone Microenvironment via MMP-3.

Sourik S Ganguly, University of Arizona

Galen Hostetter, Lin Tang, Sander B. Frank, Kathylynn Saboda, Rohit Mehra, Lisha Wang, Xiaohong Li, Evan T. Keller, and Cindy K. Miranti

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PS2-79

CDK4/6 Pathway as Therapeutic Target for Bladder Cancer

Ai-Hong Ma, Ph.D., University of California Davis

Roger Xia, Qilai Long, M.D., Hongyong Zhang, Ph.D., Zhixiu Cao, M.D., Tzu-Yin Lin Ph.D., DVM, Guru P. Sonpavde, M.D., Ralph de Vere White, M.D., Jianmin Guo, M.D., Chong-Xian Pan, M.D., Ph.D.

https://drive.google.com/open?id=1hLHZa8PfJrGZ71Cx_4kefo4HTK7UTvrs

PS2-80

PBM nano-formulation inhibits hedgehog signaling in docetaxel-resistant prostate cancer

Santosh Kumar Singh, Ph.D., Research Associate, Morehouse School of Medicine

James W. Lillard Jr. Ph.D., Professor, Morehouse School of Medicine Rajesh Singh, Ph.D., Associate Professor, Morehouse School of Medicine

<https://drive.google.com/open?id=1rQ7AKLPPoaBsZiGTERCsqMDVU8qw-sAr>

PS2-81

The Role of SOX2 in Promoting Enzalutamide Resistance in Castration-Resistant Prostate Cancer
Larisha de Wet, PhD Candidate, University of Chicago

Anthony Williams, Postdoctoral Scholar, University of Chicago, Marc Gillard, Postdoctoral Scholar, University of Chicago, Steven Kregel, PhD Candidate, University of Chicago, Ryan Brown, Research Specialist, University of Illinois at Chicago, Sophia Lamperis, Technician, University of Illinois at Chicago, Gladell P. Paner, Pathologist, University of Chicago, Russell Z. Szmulewitz, Associate Professor of Medicine, University of Chicago, Donald J. Vander Griend, Visiting Associate Professor, University of Illinois at Chicago

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PS2-82

The effects of autoimmune inflammation on androgen receptor signaling in adult prostate stem cells
Paula O Cooper, Graduate Student, Purdue University

Hsing-Hui Wang, PhD, Department of Pediatrics, University of North Carolina at Chapel Hill, Chapel Hill, NC. Meaghan M. Broman, DVM, MS, DACVP, Department of Comparative Pathobiology, Purdue University, West Lafayette, IN. Gregory M Cresswell, PhD, Department of Comparative Pathobiology, Purdue University, West Lafayette, IN. Liang Cheng, MD, Pathology, Indiana University School of Medicine, Indianapolis, IN. Nadia Atallah Lanman, PhD, Department of Comparative Pathobiology, Purdue University, West Lafayette, IN, Purdue University Center for Cancer Research, Purdue University, West Lafayette, IN. Travis Jerde, PhD, Pharmacology and Toxicology, Indiana School of Medicine, Indianapolis, IN. Bennett D Elzey, PhD, Department of Comparative Pathobiology, Purdue University, West Lafayette, IN, Purdue University Center for Cancer Research, Purdue University, West Lafayette, IN. Timothy L Ratliff, PhD, Department of Comparative Pathobiology, Purdue University, West Lafayette, IN, Purdue University Center for Cancer Research, Purdue University, West Lafayette, IN

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PS2-83

Age-related Increased Incidence of Prostate Cancer was Revealed by a Spatially and Temporally Controlled Prostate-Specific Pten Knockout Mouse Model Generated through Adenovirus-Assisted In vivo Approach
Sen Liu, Tulane University

Bing Zhang, Jiwen Hu, S. Michal Jazwinski, Qiuyang Zhang

<https://drive.google.com/open?id=10tXAefckikosA3YDyh4vb5RNY5UE5tR7>

PS2-84

Targeting GAPDH-related glycolysis in castration-resistant prostate cancers
Haixia Xu, MD, PhD, KUMC

Benyi Li, MD, PhD

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