



Network:  
**SBUR2024**  
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# SBUR 2024

**ANNUAL MEETING | NOVEMBER 14-17**  
Scottsdale Plaza Resort | Scottsdale, Arizona



SOCIETY FOR BASIC UROLOGIC RESEARCH, INC.

# Welcome



## Welcome to the Society for Basic Urologic Research (SBUR) 2024 Annual Symposia in sunny Scottsdale, Arizona!

The 2024 SBUR Annual Symposia focuses on the advances in urological research with an emphasis on Molecular Biology, Health Disparities and Treatment Approaches. The SBUR brings together basic science researchers and physician-scientists engaged in basic and translational research in both benign and malignant urological diseases. This meeting provides a valuable forum for interactions between the basic and clinical disciplines, while exposing bench scientists to clinical challenges, clinicians to scientific developments, and all attendees to cutting-edge concepts and approaches to enhance their scientific knowledge. Such focused interaction will lead to the development of trans-disciplinary, translational, and clinical breakthroughs with enormous benefits to patient care.

Continuing the tradition, our Trainee Affairs Symposium will begin on Thursday afternoon, November 14th, led by Drs. Antonina Mitrofanova and Ayesha Shafi. Trainees will get advice on being a good mentor and mentee and be able to network and engage in small group discussions with scientists from a range of urologic disciplines and careers. The official meeting kicks off on Thursday evening, November 14th. We will welcome Dr. James Mohler, MD, who will present the AUA Lectureship entitled, "Backdoor Pathway for Intracrine Androgen Metabolism: New Targets for Treatment Directed Against Androgen Receptor Action".

This year we have planned five Plenary Sessions. Friday we will present three Plenary Sessions: "New Approaches to Facilitate Urologic Research", "Health Disparities in Urologic Research", and "Cell-Cell Interactions in Urologic Disease". Friday's programming concludes with Poster Session #1.

Saturday morning programming begins with the Leland Chung Memorial Award and Lectureship by Dan Theodorescu, MD, PhD entitled "Beyond Sex. The Y Chromosome in Cancer". Next will be Plenary Session IV: "Transcriptional Subtypes of Urologic Disease" and Plenary Session V: "Genetic and Endocrine Basis of Urologic Disease". These two sessions will be followed by the Awards Ceremony, the Annual Business Meeting, and Poster Session #2.

On Sunday, we finish with Plenary Session VI: "Emerging Therapeutic Approaches in the Management of Urologic Disease".

The Annual Meeting comes together because of the hard work and financial support of many people. We sincerely thank members of the 2024 Program Committee for their time in coordinating the meeting topics and speakers. We are also grateful to Drs. Antonina Mitrofanova and Ayesha Shafi for planning the Trainee Affairs Symposium. The Trainee Travel Awards were funded by the National Cancer Institute. Abstracts were reviewed and travel awards were selected by the Abstract Review Committee, chaired by Dr. Douglas Strand. We also thank Dr. Leland Chung's family, trainees and friends for their generosity and support of an Endowed Lecture and Mentorship Award to honor Leland's memory, and Dr. Gerald Cunha is the recipient of this Award in 2024. Finally, we would like to thank Marty Roth of Veritas Association Management for helping to make this meeting a reality.

Thank you again for joining us in Scottsdale, Arizona. We hope you enjoy the beautiful scenery and weather and that the presentations and discussions of our scientific program are beneficial and meaningful to your research and collaborations.

Sincerely,

Handwritten signature of Shawn E. Lupold in cursive script.

Shawn E. Lupold, PhD  
President

Handwritten signature of Douglas Strand in cursive script.

Douglas Strand, PhD  
2024 Program Chair

*Advances in Basic Urological Research: Cellular Diversity and Crosstalk*

# SBUR 2024 Faculty

## PRESIDENT

### Shawn E. Lupold, PhD

The Catherine Iola and J. Smith Michael  
Distinguished Professor of Urology  
Johns Hopkins University School of Medicine

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Associate Professor in Residence, Urology  
UC San Diego

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Wisconsin Institutes for Medical Research

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Leroy T. Canoles Jr. Cancer Research Center  
Department of Microbiology and Molecular Cell Biology  
Eastern Virginia Medical School  
Harry T. Lester Hall

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### Zongbing You, MD, PhD

Professor, Structural & Cellular Biology  
Tulane University  
School of Medicine

## DIRECTORS AT LARGE

### Daniel Frigo, PhD

Department of Cancer Systems Imaging, Division of  
Diagnostic Imaging  
The University of Texas  
MD Anderson Cancer Center

### Jindan Yu, MD, PhD

Fray F. Marshall Chair in Biomedical Urologic Research  
Professor of Urology and Vice Chair for Research  
Professor of Human Genetics and Faculty Lead for  
Cancer Genomics  
Professor, Coulter Department of Biomedical Engineering  
(Joint GeorgiaTech-Emory)  
Scientific Director of the Prostate and GU Cancer  
Research Program  
Winship Cancer Institute  
Emory University, School of Medicine

### Qianben Wang, PhD

Banks Anderson, Sr. Distinguished Professor  
Professor of Pathology  
Professor of Cell Biology  
Duke University School of Medicine

## EMERITUS MEMBER

### Timothy L. Ratliff, PhD

Purdue Cancer Center

### Remi Adelaiye-Ogala, PhD

University of Buffalo

### Joshi Alumkal, MD

University of Michigan

### Sarah Amend, PhD

John Hopkins University School of  
Medicine

### Jonathan Beckel, PhD

University of Pittsburgh School of  
Medicine

### Nate Brennen, PhD

John Hopkins University School of  
Medicine

### Changmeng Cai, PhD

University of Massachusetts, Boston

### Gerald Cunha, PhD

University of California, San Francisco

### Jennifer Doll, PhD

University of Wisconsin Milwaukee

### Justin Drake, PhD

University of Minnesota

### Leigh Ellis, PhD

Center for Prostate Disease Research

### Asmaa El-Kenawi, PhD

Indiana University School of Medicine

### Barbara Foster, PhD

Roswell Park Cancer Institute

### Daniel Frigo, PhD

MD Anderson Cancer Center

### Beatriz German-Falcon, PhD

Center for Prostate Disease Research

### Simon Hayward, PhD

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Baylor College of Medicine

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### Nastasha Kyprianou, PhD

Icahn School of Medicine at Mount Sinai

### Shawn Lupold, PhD

John Hopkins University School of Medicine

### Maria Hadjifrangiskou, PhD

Vanderbilt University Medical Center

### Estefania Labanca

MD Anderson Cancer Center

### David Labbe, PhD

McGill University

### Teresa Liu, PhD

University of Wisconsin Madison

### Antonina Mitrofanova, PhD

Rutgers School of Health Professionals

### Larisa Nonn

University of Illinois Chicago

### Petra Popovics, PhD

Virginia Health Sciences at Old  
Dominion University

### Gail Prins, PhD

University of Illinois Chicago

### William Ricke, PhD

University of Wisconsin Madison

### Marianne Sadar, PhD

Genome Sciences Centre, BC Cancer

### Simpa Salami, MD, PhD

University of Michigan

### Karen Sfanos, PhD

John Hopkins University School of Medicine

### Ayesha Shafi, PhD

Center for Prostate Disease Research

### Tanya Stoyanova, PhD

University of California at Los Angeles

### Russell Szmulewitz, PhD

University of Chicago

### Daniel Theodorescu, MD, PhD

Cedars Sinai Medical Center

### Manisha Tripathi, PhD

Texas Tech University Health Sciences  
Center

### Donald Vander Griend, PhD

University of Illinois Cancer Center

### Lin Vin, PhD

Xiuping Yu, PhD  
LSU Health Shreveport

### Di Zhao, PhD

MD Anderson Cancer Center

### Amina Zoubeidi, PhD

University of British Columbia

# SBUR 2024 Committees

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Christina Jamieson, PhD (2024 Vice President)  
William Ricke, PhD (2024 Past President)

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Travis Jerde, PhD  
Veronica Rodriguez-Bravo, PhD  
Ayesha Shafi, PhD  
Jindan Yu, PhD  
Maria Hadjifrangiskou, PhD

## By-Laws Committee

Daniel Frigo, PhD  
Yan Dong, PhD  
Kexin Xu, PhD  
Paula Hurley, PhD

## Coffey Innovation Award and Chung Mentorship Award Subcommittee

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William Ricke, PhD  
Chung Family Representative

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Qianben Wang, PhD  
Shawn Lupold, PhD  
Will Ricke, PhD  
Xiuping Yu, PhD  
Nate Brennan, PhD  
Maria Hadjifrangiskou, PhD  
Ayesha Shafi, PhD  
Antonina Mitrofanova, PhD

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Christina Jamieson, PhD (Vice President)  
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Hongyan Wang, PhD

## Media/Website Committee (Ad Hoc)

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Leigh Ellis, PhD  
Beatriz German Falcon, PhD

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Chengfei Liu, MD, PhD  
Shafiq Khan, MSc, MPhil, PhD  
Qing Zhang, PhD  
Asmaa Elkenawi, PhD  
Petra Popovics, PhD

## Nominating Committee

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Jennifer Doll, PhD  
Douglas Strand, PhD  
Natasha Kyprianou, PhD  
Janielle P. Maynard, PhD

## Program Committee - Spring 2024 Meeting

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William Ricke, PhD (2024 Immediate Past President)  
Praveen Thumbikat, PhD  
Jelani Zarif, PhD

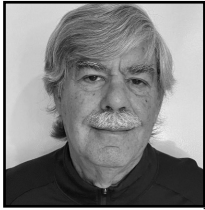
## Trainee Affairs Committee (Ad Hoc)

Antonina Mitrofanova, PhD  
Ayesha Shafi, PhD

## Publications Committee

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Scott Dehm, PhD  
Aria Olumi, PhD  
Amina Zoubeidi, PhD  
Hansen He, PhD  
Tanya Stoyanova, PhD  
Marc Cox, PhD  
John Sfakianos, PhD  
Yan Dong, PhD  
Mehdi Mollapour, PhD  
Lorelei Mucci, PhD  
Petros Grivas, PhD  
Sean X. Li, PhD  
Timothy McDonnell, PhD  
Emmanuel Antonarakis, PhD  
Toby Chai, PhD

# 2024 Award Winners



## LELAND W.K. CHUNG MENTORSHIP AWARD

**Gerald Cunha, PhD**

Presentation title:

*Mentorship, Dogma and Unfinished Business*



## DISTINGUISHED SERVICE AWARD

**Jill A. Macoska, PhD**

University of Massachusetts Boston



## MERITORIOUS ACHIEVEMENT AWARD

**Gail S. Prins, PhD**

University of Illinois Chicago

## Young Investigator Awards

Jianhua Xiong, PhD

Petra Popovics, PhD

Jawed Siddiqui, PhD

## Minority Scholar Award

Simpa S. Salami, MD, MPH

## TRAVEL AWARDS

Shaghayegh Nouruzi

Krinio Giannikou

Galina Semyonova

Daniel Triner

Gerardo Javier Sanchez

Heiko Yang

Alex LaPat Polasko

Krinio Giannikou

Chenming Ye

Songqi Zhang

Ashley Jackson

Mostafa Nasr

Jennifer Heritz

Felipe Rodriguez-Tirado

Nikhila T. Suresh

Chunming Guo

Sander Frank

Hunain Khawaja

Mingyu Liu

Gada Awdalkreem

# SBUR 2024 Agenda

All General Sessions will be in the Crystal & Yellow Rose Ballroom. All other activities locations will be noted in the agenda.

## THURSDAY, NOVEMBER 14, 2024

(All Times are in Central Time Zone)

<b>3:00 PM - 5:30 PM</b>	<b>TRAINEE AFFAIRS SYMPOSIUM</b> <i>Chairs: Antonina Mitrofanova, PhD and Ayesha Shafi, PhD</i>
3:00 PM - 3:30 PM	How to be a Good Mentee <i>Ayesha Shafi, PhD</i>
3:30 PM - 3:45 PM	Q&A <i>Moderator: Antonina Mitrofanova, PhD</i>
3:45 PM - 4:15 PM	How to be a Good Mentor <i>Nastasha Kyprianou, PhD</i>
4:15 PM - 4:30 PM	Q&A <i>Moderator: Antonina Mitrofanova, PhD</i>
4:30 PM - 5:30 PM	<b>Career Panel Discussion: How to be a Good Mentee and Mentor: Lessons Learned, Challenges, and Opportunities</b> <i>Panelists: Leigh Ellis, PhD, Beatriz German-Falcon, PhD, Daniel Frigo, PhD</i> <i>Additional Speakers: Joshi Alumkal, MD, Sarah Amend, PhD</i> <i>Moderator: Ayesha Shafi, PhD</i>
<b>6:00 PM - 6:10 PM</b>	<b>Welcome and Introductory Remarks by SBUR 2024 President</b> <i>Shawn Lupold, PhD</i>
<b>6:10 PM - 7:10 PM</b>	<b>AUA LECTURE:</b> <b>BACKDOOR PATHWAY FOR INTRACRINE ANDROGEN METABOLISM: NEW TARGETS FOR TREATMENT DIRECTED AGAINST ANDROGEN RECEPTOR ACTION</b> <b>("Don't Discard Unexpected Findings, Pursue Them!" <i>The Chief</i>)</b> <i>James Mohler, MD</i>
<b>7:10 PM - 7:25 PM</b>	<b>EULA AND DONALD S. COFFEY INNOVATION AWARD FINALIST SHORT TALKS</b>
7:10 PM - 7:15 PM	<i>Daniel Triner</i>
7:15 PM - 7:20 PM	<i>Alexandra Polasko</i>
7:20 PM - 7:25 PM	<i>Jude Owiredu</i>
<b>7:30 PM - 8:30 PM</b>	<b>NETWORKING RECEPTION</b>

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## FRIDAY, NOVEMBER 15, 2024

<b>7:00 AM - 9:00 AM</b>	<b>SBUR BOARD MEETING</b>
9:00 AM - 9:15 AM	Mentee Introductory Remarks <i>Simon Hayward, PhD, William Ricke, PhD and Barbara Foster, PhD</i>
<b>9:15 AM - 10:00 AM</b>	<b>LELAND W.K. CHUNG MENTORSHIP AWARD AND LECTURE</b> <i>Gerald Cunha, PhD</i>
10:00 AM - 10:15 AM	Coffee Break
<b>10:15 AM - 1:15 PM</b>	<b>PLENARY SESSION 1: NEW APPROACHES TO FACILITATE UROLOGIC RESEARCH</b> <b>Discussion Leaders: Steve Kregel, PhD, and Petra Popovics, PhD</b>
10:15 AM - 10:40 AM	Clinical Translation of Laboratory Discoveries: New Technologies and Big Data <i>Beatrice Knudsen, MD, PhD</i>
10:40 AM - 11:05 AM	TIAM1-SLIT3 Axis: A Novel Pathway – Based Therapeutic Strategy for BPH Using Omics and Organoids <i>Manisha Tripathi, PhD</i>
11:05 - 11:20 AM	<b>Travel Award Presentation #1</b> - Chenming Ye
11:20 AM - 11:45 AM	Liquid Biopsy-based Proteomic Approaches to Identify Druggable Targets in Cancer <i>Justin Drake, PhD</i>
11:45 AM - 12:10 PM	The Endocycling Cancer Cell State Underlies Cancer Lethality <i>Sarah Amend, PhD</i>
12:15 PM - 1:15 PM	Trainee Affairs Networking Lunch
<b>1:15 PM - 3:25 PM</b>	<b>PLENARY SESSION 2: HEALTH DISPARITIES IN UROLOGIC RESEARCH</b> <b>Discussion Leaders: Larisa Nonn, PhD, and Asmaa El-Kenawi, PhD</b>
1:15 PM - 1:40 PM	Metabolic and Immune Dysregulation as Drivers of Health Disparities in Prostate Cancer <i>Salma Kaochar, PhD</i>
1:40 PM - 2:05 PM	Prostate Cancer Genomic and Exposomic Variances in African Populations <i>Gail Prins, PhD</i>
2:05 PM - 2:20 PM	<b>Travel Award Presentation #2</b> - Mingyu Liu
2:20 PM - 2:45 PM	Influence of Race on Prostate Cancer Outcomes and Prognosis <i>Simpa Salami, MD, MPH</i>
2:45 PM - 3:10 PM	Advancing Precision Oncology Through the Study of Mechanisms of Prostate Cancer Disparities <i>Franklin Huang, MD, PhD</i>
3:10 PM - 3:25 PM	Coffee Break
<b>3:25 PM - 5:05 PM</b>	<b>PLENARY SESSION 3: CELL-CELL INTERACTIONS IN UROLOGIC DISEASE</b> <b>Discussion Leaders: Teresa Liu, PhD, and Estefania Labanca, PhD</b>
3:25 PM - 3:50 PM	Urobiome - Uropathogen – Host Interactions in the Urinary Tract <i>Maria Hadjifrangiskou, PhD</i>
3:50 PM - 4:15 PM	Urothelial Purinergic Signaling: Multiple ATP Release Mechanisms and Their Influence on Bladder Physiology/pathophysiology <i>Jonathan Beckel, PhD</i>
4:15 PM - 4:30 PM	<b>Travel Award Presentation #3</b> - Krinio Giannikou, PhD (Seminoma abstract)
4:30 PM - 4:55 PM	Uropathogenic Bacteria as a Driver of Prostate Epithelial Cell Plasticity <i>Karen Sfanos, PhD</i>
4:55 PM - 5:20 PM	Macrophage-epithelial Interactions in Benign Prostate Disease <i>Petra Popovics, PhD</i>
<b>5:20 PM - 7:00 PM</b>	<b>POSTER SESSION #1</b>

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<b>SATURDAY, NOVEMBER 16, 2024</b>	
<b>9:00 AM - 10:00 AM</b>	<b>LELAND W.K. CHUNG LECTURE</b> <i>Introduction by Doug Strand, PhD and Haiyen E. Zhou, PhD</i> <b>Beyond Sex. The Y Chromosome in Cancer.</b> <i>Dan Theodorescu, MD, PhD</i>
<b>10:00 AM - 12:30 PM</b>	<b>PLENARY SESSION 4: TRANSCRIPTIONAL SUBTYPES OF UROLOGIC DISEASE</b> <i>Discussion Leaders: Li Xin, PhD and David Labbe, PhD</i>
10:00 AM - 10:25 AM	UCHL1 is a Molecular Indicator and Therapeutic Target for Neuroendocrine Prostate Cancer <i>Tanya Stoyanova, PhD</i>
10:25 AM - 10:40 AM	<b>Travel Award Presentation #4</b> - Galina Semyonova
10:40 AM - 10:55 AM	Coffee Break
10:55 AM - 11:20 AM	Unraveling the Phenomenon of Lineage Plasticity in Prostate Cancer: Insights and Implications <i>Amina Zoubeidi, PhD</i>
11:20 AM - 11:45 AM	Understanding Prostate Cancer Heterogeneity Through Transcriptional Profiling <i>Joshi Alumkal, MD</i>
11:45 AM - 12:45 PM	Lunch Break
<b>12:45 PM - 3:15 PM</b>	<b>PLENARY SESSION 5: GENETIC AND ENDOCRINE BASIS OF UROLOGIC DISEASE</b> <i>Discussion Leaders: Jennifer Doll, PhD and Jianhua Xiong, PhD</i>
12:45 PM - 1:10 PM	Drugging the Intrinsically Disordered Transactivation Domain of Androgen Receptor <i>Marianne Sadar, PhD</i>
1:10 PM - 1:35 PM	Targeting Prostate Cancer Metabolism Across the Androgen Continuum <i>Dan Frigo, PhD</i>
1:35 PM - 1:50 PM	<b>Travel Award Presentation #5</b> - Gerardo Javier Sanchez, PhD
1:50 PM - 2:15 PM	FOXA2: A Pan-lineage Driver for AR-Independent Prostate Cancer <i>Changmeng Cai, PhD</i>
2:15 PM - 2:30 PM	<b>Travel Award Presentation #6</b> - Mostafa Nasr, PhD
2:30 PM - 2:45 PM	Coffee Break
<b>2:45 PM - 3:15 PM</b>	<b>AWARDS CEREMONY</b>
<b>4:00 PM - 4:30 PM</b>	<b>SBUR BUSINESS MEETING</b>
<b>4:30 PM - 6:30 PM</b>	<b>POSTER SESSION #2</b>



# SBUR 2024 Agenda

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## SUNDAY, NOVEMBER 17, 2024

9:00 AM - 10:50 AM	<b>PLENARY SESSION 6: EMERGING THERAPEUTIC APPROACHES IN THE MANAGEMENT OF UROLOGIC DISEASE</b> <i>Discussion Leaders: Don Vander Griend, PhD and Di Zhao, PhD</i>
9:00 AM - 9:25 AM	Updates on the Clinical Management of Metastatic Prostate Cancer <i>Russell Szmulewitz, MD</i>
9:25 AM - 9:50 AM	LSD1 Inhibition Suppresses the Neuroendocrine Phenotype in Advanced mCRPC <i>Nate Brennen, PhD</i>
9:50 AM - 10:05 AM	<b>Travel Award Presentation #7</b> - Felipe Rodriguez-Tirado
10:05 AM - 10:15 AM	Coffee Break
10:15 AM - 10:40 AM	Integrative Multi-omics Unveils Novel Predictive Biomarkers and Targets for Enhanced Therapeutic Strategies in Prostate Cancer <i>Remi Adelaiye-Ogala, PhD</i>
10:40 AM - 10:50 AM	The Role of INSM1 in Neuroendocrine Prostate Cancer <i>Xiuping Yu, PhD</i>
10:50 AM - 11:05 AM	<b>Travel Award Presentation #8</b> - Jennifer Heritz
11:05 AM	<b>Closing Remarks by SBUR 2024 President</b> <i>Shawn Lupold, PhD</i>

*Thank you to the below organizations that have provided educational grants.*



American  
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**NATIONAL CANCER INSTITUTE**

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# Poster Session #1

**FRIDAY, NOVEMBER 15 • 5:20 PM - 7:00 PM CONVENTION FOYER**

## **3** **Qianlie Beixi Capsules Treat Diabetic Induced Erectile Dysfunction by Regulating the Hif-1/VEGF Pathway: An in Vivo Animal Study**

Dr. Longji Sun Master<sup>1</sup>, Dr. Zhechao Lin Master<sup>1</sup>, Dr. Junlong Feng Master<sup>1</sup>, Dr. Chao Yang Master<sup>1</sup>, Dr. Zixiang Gao Master<sup>1</sup>, Prof. Bin Wang Dr.<sup>2</sup>, Prof. Jisheng Wang Dr.<sup>2</sup>

<sup>1</sup>First Clinical Medical College, Beijing University of Chinese Medicine, Beijing, China.

<sup>2</sup>Andrology Department, Dongzhimen Hospital, Beijing University of Chinese Medicine, Beijing, China

## **4** **Extracellular Vesicle Delivery of CRISPR/Cas9 to Target Fatty Acid Metabolism in Prostate Cancer Cells**

Ms. Jennifer Lathrop B.S., Dr. Houjian Cai PhD  
University of Georgia, Athens, Georgia, USA

## **5** **Prostatic Epithelial Cell Differentiation Lineage**

Mr. Xinyao Pang PhD student<sup>1,2,3</sup>, Dr. Yuzhuo Wang PhD<sup>1,2,3</sup>

<sup>1</sup>Vancouver Prostate Centre, Vancouver, British Columbia, Canada.

<sup>2</sup>BC Cancer Centre, Vancouver, British Columbia, Canada.

<sup>3</sup>University of British Columbia, Vancouver, British Columbia, Canada

## **6** **FXYD5 Plays Diverse Roles in Immune Evasion and Tumor Progression in Prostate Cancer**

Dr. Ru Wen PhD<sup>1</sup>, Dr. G Edward Marti PhD<sup>1</sup>, Dr. Neeladrisingha Das Das PhD<sup>1</sup>, Mr. Zhengyuan Qiu MS<sup>1</sup>, Mr. Eric Peterson PhD<sup>1</sup>, Dr. Zenghua Fang PhD<sup>2</sup>, Dr. Fernando Jose Garcia Marques PhD<sup>1</sup>, Mr. Abel Bermudez BS<sup>1</sup>, Dr. Hongjuan Zhao PhD<sup>1</sup>, Prof. Lawrence Fong MD<sup>1</sup>, Prof. Sharon Pittner PhD<sup>1</sup>, Prof. James Brooks MD<sup>1</sup>

<sup>1</sup>Stanford University, Stanford, CA, USA.

<sup>2</sup>UCSF, SF, CA, USA

## **7** **CD59 is a Potential Ligand for Siglec-9 in Prostate Cancer**

Dr. Ru Wen PhD<sup>1</sup>, Dr. G Edward Marti PhD<sup>1</sup>, Dr. Jessica Stark PhD<sup>1</sup>, Dr. Zenghua Fang PhD<sup>2</sup>, Dr. Nicolas Riley PhD<sup>1</sup>, Dr. Xiangyue Zhang PhD<sup>1</sup>, Dr. Hongjuan Zhao PhD<sup>1</sup>, Prof. Edgar Engleman PhD<sup>1</sup>, Prof. Lawrence Fong PhD<sup>2</sup>, Prof. Sharon Pittner PhD<sup>1</sup>, Prof. Carolyn Bertozzi PhD<sup>1</sup>, Prof. James Brooks MD<sup>1</sup>

<sup>1</sup>Stanford University, Stanford, CA, USA.

<sup>2</sup>UCSF, SF, CA, USA

## **8** **Tuning T Cell Receptor Immunotherapy Targeting Prostatic Acid Phosphatase for Advanced Prostate Cancer**

Dr. Zhiyuan Mao, PhD

University of California, Los Angeles, Los Angeles, California, USA

## **9** **A Cellular Anatomy of Healthy Human Male and Female Lower Urinary Tract**

Ms. Emily Paterson Bachelor, Ms. Lari Smith Bachelor, Mr. Nikita Malev Bachelor, Dr. John Lafin Doctorate, Ms. Alicia Malewska Masters, Ms. Alicia Simmons Bachelor, Dr. Douglas Strand Doctorate

UT Southwestern, Dallas, TX, USA

## **10** **FOXA2 and ASCL1 Cooperate in Driving Neuronal Lineage Commitment in Prostate Cancer**

Dr. Shaghayegh Nouruzi PhD<sup>1,2</sup>, Dr. Takeshi Namekawa MD<sup>1,2</sup>, Dr. Nakisa Tabrizian PhD<sup>1,2</sup>, Dr. Maxim Kobelev PhD<sup>1,2</sup>, Ms Olena Sivak MS<sup>2</sup>, Ms Cassandra Cui MS<sup>1,2</sup>, Dr. Dwaipayan Ganguli PhD<sup>2</sup>, Dr. Amina Zoubeidi PhD<sup>1,2</sup>

<sup>1</sup>University of British Columbia, Vancouver, BC, Canada.

<sup>2</sup>Vancouver Prostate Centre, Vancouver, BC, Canada

## **11** **The Fate of Renal Units Under Conservative Management for PUJO Type of Hydronephrosis**

Dr. Ajay Verma MCh, Dr. Sachit Anand MCh, Dr. Shilpa Sharma MS, MCh, Dr. Devendra K Yadav MS, MCh

All India Institute of Medical Sciences, Delhi, Delhi, India

## **12** **Patient-Derived Renal Cell Cancer Organoids as a Model to Assess Therapeutic Targets and Treatment Resistance Mechanisms**

Dr. Daniel Triner MD PhD<sup>1</sup>, Ms Trinh Pham MS<sup>1</sup>, Mr Zayne Knuth MS<sup>1</sup>, Mr Srinivas Nallandhighal MS<sup>1</sup>, Dr. Steven Monda MD<sup>1</sup>, Ms Sophia Abusamra BS<sup>2</sup>, Dr. Saravana Dhanasekaran PhD<sup>3</sup>, Dr. Aaron Udager MD PHD<sup>4</sup>, Dr. Brittney Cotta MD<sup>5</sup>, Dr. Fengyun Su PhD<sup>3</sup>, Dr. Hamadi Madhi PhD<sup>6</sup>, Dr. Hiroshi Kikuchi PhD<sup>1</sup>, Ms. Sydney Tran BS<sup>1</sup>, Ms Jiayi Tian BS<sup>1</sup>, Mr Nathanael Hail BS<sup>1</sup>, Dr. Alice Semerjian MD<sup>1</sup>, Dr. Khaled Hafez MD<sup>1</sup>, Dr. Udit Singhal MD<sup>1</sup>, Dr. Samuel Kaffenberger MD<sup>1</sup>, Dr. Sunitha Nagrath PhD<sup>7</sup>, Dr. Arul Chinnaiyan MD PhD<sup>8</sup>, Dr. Evan Keller PhD<sup>1</sup>, Dr. Allison May MD<sup>9</sup>, Dr. Todd Morgan MD<sup>1</sup>, Dr. Alexander Zaslavsky PhD<sup>1</sup>, Dr. Ganesh Palapattu MD<sup>1</sup>, Dr. Ulka Vaishampayan MD<sup>10</sup>, Dr. Nathan Merrill PhD<sup>11</sup>, Dr. Simpa Salami MD<sup>12</sup>

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# Poster Session #1

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## Establishment, Characterization, and Pre-Clinical Testing of a Patient-Derived Xenograft Model of Human BPH

Dr. Alexandra Polasko PhD, Ms Avanti Ramraj BS, Dr. Dalin Zhang PhD, Dr. Jason Chiu PhD/DVM, Mr Peter Qiu MS, Mr Eric Peterson MS, Dr. Hongjuan Zhao PhD, Dr James Brooks MD

Stanford University, Palo Alto, CA, USA

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## Macrophage-Derived SPP1 Induces Epithelial-Mesenchymal Transition to a Sarcomatoid State and Increases PD-L1 Expression in Renal Cell Carcinoma

Dr. Suguru Kadomoto MD, PhD<sup>1,2</sup>, Mr Tyler Robinson BS<sup>1</sup>, Dr. Allison May MD<sup>1</sup>, Dr. Atsushi Mizokami MD, PhD<sup>2</sup>, Dr. Evan T Keller DVM, PhD<sup>1</sup>

<sup>1</sup>Department of Urology and Single Cell Spatial Analysis Program, University of Michigan, Ann Arbor, Michigan, USA.

<sup>2</sup>Department of Urology, Kanazawa University, Kanazawa, Ishikawa, Japan

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## Targeting AXL in the Bone Microenvironment Inhibits the Growth and Metastasis of Lethal Prostate Cancer

Postdoctoral Scholar Chun-Lung Chiu DVM/PhD<sup>1</sup>, Postdoctoral Scholar Dalin Zhang PhD<sup>1</sup>, Senior Research Scientist Hongjuan Zhao PhD<sup>1</sup>, Life Science Research Professional 1 Yi Wei BS<sup>1</sup>, Postdoctoral Scholar Alexandra Lapat Polasko PhD<sup>1</sup>, Postdoctoral Scholar Mikkel Thy Thomsen PhD<sup>2,1</sup>, Life Science Research Professional 1 Vanessa Yang BS<sup>1</sup>, Student Intern Kasie Yang High School<sup>1</sup>, Postdoctoral Associate Spencer Hauck PhD<sup>3</sup>, Laboratory Services Manager 1 Eric E. Peterson MS<sup>1</sup>, Postdoctoral Scholar Ru M. Wen PhD<sup>1</sup>, Life Science Research Professional 1 Zhengyuan Qiu MS<sup>1</sup>, Basic Life Science Research Associate Yu Rebecca Miao PhD<sup>1</sup>, Assistant Professor Erinn B. Rankin PhD<sup>1</sup>, Professor Donna Peehl PhD<sup>4</sup>, Professor Jioati Huang PhD<sup>3</sup>, Professor Amato J. Giaccia PhD<sup>5</sup>, Professor James D. Brooks MD<sup>1,6</sup>

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<sup>2</sup>Aarhus University, Aarhus, Centrum, Denmark.

<sup>3</sup>Duke University, Durham, NC, USA.

<sup>4</sup>University of California, San Francisco, CA, USA.

<sup>5</sup>University of Oxford, Wellington Square, Oxford, United Kingdom.

<sup>6</sup>Stanford Cancer Research Institute, Stanford, CA, USA

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## HSP70 Leverages STUB1 to Modulate N-Myc Protein Turnover in Lethal Prostate Cancer

Dr. Pengfei Xu MD, PhD<sup>1</sup>, Dr. Joy C. Yang PhD<sup>1</sup>, Dr. Bo Chen MD, PhD<sup>1</sup>, Mr. Christopher Nip BS<sup>1</sup>, Dr. Shu Ning PhD<sup>1</sup>, Ms. Leyi Wang BS<sup>1</sup>, Dr. Allen C Gao MD, PhD<sup>1</sup>, Dr. Jason Gestwicki PhD<sup>2</sup>, Dr. Chengfei Liu MD, PhD<sup>1</sup>

<sup>1</sup>Department of Urologic Surgery, University of California Davis, Sacramento, California, USA.

<sup>2</sup>Department of Pharmaceutical Chemistry, University of California, San Francisco, San Francisco, California, USA

Dr. Pengfei Xu

**Abstract Background:** Imbalances in protein homeostasis (proteostasis) are associated with a wide range of diseases, including neurodegeneration and tumorigenesis. Prostate cancer has proven to be a key model for understanding how proteostasis regulates tumor progression. Neuroendocrine prostate cancer.

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## Ep300 of Urothelial Basal Stem Cell Programs Cell Proliferation and Tumor Micro-Environment for Tumorigenesis

Student Qing Zhang BD<sup>1</sup>, Student Chongjie He BD<sup>1</sup>, Student Qiang Zhang BD<sup>1</sup>, Student Rui Guo BD<sup>1</sup>, Prof. Haifeng Wang PhD<sup>2</sup>, Prof. Cheng Peng PhD<sup>1</sup>, Prof. Chunming Guo PhD<sup>1</sup>

<sup>1</sup>Yunnan University, Kunming, Yunman, China.

<sup>2</sup>The Second Affiliated Hospital of Kunming Medical University, Kunming, Yunman, China

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## Shed Trop2 Extracellular Domain Signals through EGFR and Regulates Prostate Cancer Metastasis

Dr. Shiqin Liu MD/PhD

University of California, Los Angeles, Los Angeles, CA, USA

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## Canonical AREs are Tumor Suppressive Regulatory Elements in the Prostate

Dr. Xuanrong Chen PhD, Dr. Michael Augello PhD, Dr. Deli Liu PhD, Dr. Christopher Barbieri MD/PhD

Department of Urology, Weill Cornell Medicine, New York, NY, USA

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## Combined Use of Prostate Cancer Vaccine with Immune Checkpoint Blockade Synergizes to Eliminate Prostate Cancer

Dr. Seema Dubey PhD<sup>1</sup>, Dr. Sumedha Gunewardena PhD<sup>2</sup>, Dr. Peter VanVeldhuizen MD<sup>3</sup>, Dr. Dev Karan PhD<sup>1</sup>

<sup>1</sup>Medical College of Wisconsin, Milwaukee, WI, USA.

<sup>2</sup>The University of Kansas Medical Center, Kansas City, KS, USA.

<sup>3</sup>University of Michigan Health-West, Wyoming, MI, USA

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## Small molecule Inhibitor Targeting EP300 Attenuated Bladder Cancer Progression

Student Qing Zhang BD<sup>1</sup>, Student Chongjie He BD<sup>1</sup>, Student Yingzhou Hong BD<sup>1</sup>, Student Rui Guo BD<sup>1</sup>, Student Junwei He MD<sup>1</sup>, Prof. Haifeng Wang PhD<sup>2</sup>, Prof. Cheng Peng PhD<sup>1</sup>, Prof. Chunming Guo PhD<sup>1</sup>

<sup>1</sup>Yunnan University, Kunming, Yunnan, China.

<sup>2</sup>The Second Affiliated Hospital of Kunming Medical University, Kunming, Yunnan, China

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## Lysine Methylation of FOXA1 Alters its Chromatin Binding and Represses E2F Signaling

Ms. Songqi Zhang Master of Science<sup>1,2</sup>, Ms. Mingyu Liu Master of Science<sup>1,2</sup>, Dr. Dong Han Doctor of Philosophy<sup>1,2</sup>, Dr. Zifeng Wang Doctor of Philosophy<sup>3</sup>, Dr. Shuai Gao Doctor of Philosophy<sup>4,5</sup>, Dr. Changmeng Cai Doctor of Philosophy<sup>1,2</sup>

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<sup>2</sup>Department of Biology, University of Massachusetts Boston, Boston, MA, USA.

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## SRD5A2 Targets WNT5A to Regulate Prostate Growth

Ms. Christina Sharkey MA<sup>1</sup>, Dr. Xingbo Long MD<sup>2</sup>, Ms. Victoria Faustin BS<sup>1</sup>, Mr. Steven Li BS<sup>1</sup>, Dr. Boqing Gu PhD<sup>1</sup>, Dr. Heidi J Rayala MD<sup>1</sup>, Dr. Ruslan Korets MD<sup>1</sup>, Dr. Boris Gershman MD<sup>1</sup>, Dr. Aria F. Olumi MD<sup>1</sup>, Dr. Zongwei Wang PhD<sup>1</sup>

<sup>1</sup>Beth Israel Deaconess Medical Center, Boston, MA, USA.

<sup>2</sup>Sun Yat-sen University Cancer Center, Guangzhou, Guangdong, China

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## SRD5A2 Expression Correlates with Prostate Volume

Ms. Christina Sharkey MA<sup>1</sup>, Mr. Nicolas Patsatzis BS<sup>2</sup>, Dr. Ra'ad Al-Faouri MD<sup>1</sup>, Dr. Heidi J. Rayala MD<sup>1</sup>, Dr. Ruslan Korets MD<sup>1</sup>, Dr. Boris Gershman MD<sup>1</sup>, Dr. Zongwei Wang PhD<sup>1</sup>, Dr. Aria F. Olumi MD<sup>1</sup>

<sup>1</sup>Beth Israel Deaconess Medical Center, Boston, MA, USA.

<sup>2</sup>The University of Texas at Austin, Austin, Texas, USA

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## Early Results of Utility of Contrast-Enhanced Ultrasound in Assessing Renal Function in Patients with Unilateral Ureteropelvic Junction Obstruction

Dr. Ajay Verma MCh<sup>1</sup>, Dr. Devendra K Yadav MCh<sup>1</sup>, Prof. Manisha Jana MD<sup>2</sup>, Prof. Devasenathipathy K MD<sup>2</sup>, Dr. Sachit Anand MCh<sup>1</sup>, Dr. Nellai Krishnan MCh<sup>1</sup>

<sup>1</sup>Department of Pediatric Surgery, All India Institute of Medical Sciences, Delhi, Delhi, India.

<sup>2</sup>Department of Radiodiagnosis & Intervention Radiology, All India Institute of Medical Sciences, Delhi, Delhi, India

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## PLXND1 is a Potential Therapeutic Target and Prognostic Marker for Neuroendocrine Prostate Cancer

Dr. Bo Chen MD, PhD, Dr. Pengfei Xu MD, PhD, Dr. Joy C Yang PhD, Dr. Huan Qu PhD, Dr. Shu Ning PhD, Dr. Allen C Gao MD, PhD, Dr. Chengfei Liu MD, PhD

Department of Urologic Surgery, University of California Davis, Sacramento, California, USA

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## Targeting Hypoxia-Inducible Factor-2 Alpha in Kidney Cancer

Ms. Jennifer Heritz BS<sup>1,2,3</sup>, Dr. Sarah Backe PhD<sup>1,2</sup>, Dr. Angela Pacherille PhD<sup>4</sup>, Ms. Sara Cayaban BS<sup>1,2</sup>, Dr. Michael Basin MD<sup>1,2</sup>, Ms. Britannia Smith MS<sup>1,2</sup>, Dr. Rebecca Sager PhD, MD<sup>1,2</sup>, Dr. Michael Daneshvar MD<sup>5</sup>, Dr. Dawn Post PhD<sup>1,2</sup>, Dr. Mark Woodford PhD<sup>1,2,3</sup>, Dr. Dimitra Bourboulia PhD<sup>1,2,3</sup>, Dr. John Chisholm PhD<sup>4</sup>, Dr. Gennady Bratslavsky MD<sup>1,2,3</sup>, Dr. Mehdi Mollapour PhD<sup>1,2,3</sup>

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<sup>4</sup>Department of Chemistry at Syracuse University, Syracuse, NY, USA.

<sup>5</sup>Department of Urology at University of California, Irvine, CA, USA

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## Characterizing Novel Approaches to Target Receptor Tyrosine Kinase ROR2 in Neuroendocrine Prostate Cancer

Dr. Nakisa Tabrizian PD<sup>1</sup>, Dr. Shaghayegh Nuoruzi PhD<sup>1</sup>, Ms. Cassandra Cui Graduate Student<sup>1</sup>, Associate Professor Aaron LeBeau PhD<sup>2</sup>, Professor Amina Zoubeidi PhD<sup>1</sup>

<sup>1</sup>University of British Columbia, Vancouver, BC, Canada.

<sup>2</sup>University of Wisconsin–Madison, Madison, Wisconsin, USA

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## Infiltrating Lipid-Rich Macrophage Subpopulations Identified as a Regulator of Increasing Prostate Size in Human Benign Prostatic Hyperplasia

Dr. Nadia Lanman PhD<sup>1</sup>, Ms. Era Mecco BS<sup>2</sup>, Dr. Philip Fitchev MD<sup>2</sup>, Ms. Andree Kolliiegbo BS<sup>1</sup>, Dr. Meaghan Broman PhD<sup>1</sup>, Ms. Yana Filipovich BS<sup>2</sup>, Dr. Harish Kothandaraman PhD<sup>1</sup>, Dr. Gregory Cresswell PhD<sup>3</sup>, Ms. Pooja Talaty BS<sup>2</sup>, Ms. Malgorzata Antoniak BS<sup>2</sup>, Ms. Svetlana Brumer BS<sup>2</sup>, Dr. Alexander Glaser MD<sup>2</sup>, Dr. Andrew Higgins MD<sup>2</sup>, Dr. Brian Helfand MD, PhD<sup>2</sup>, Dr. Omar Franco MD, PhD<sup>4</sup>, Dr. Susan Crawford MD<sup>2</sup>, Dr. Timothy Ratliff PhD<sup>1</sup>, Dr. Simon Hayward PhD<sup>2</sup>, Dr. Renee Vickman PhD<sup>2</sup>

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<sup>2</sup>Endeavor Health, Evanston, IL, USA.

<sup>3</sup>The George Washington University, Washington, DC, USA.

<sup>4</sup>Louisiana State University Shreveport, Shreveport, LA, USA

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## Comparing the Chromatin Accessibility Landscape in White and Black Patients with Localized Prostate Cancer

Ms. Beatriz German PhD<sup>1</sup>, Ms. Jennifer Garbarino PhD<sup>2</sup>, Ms. Amina Ali Histology Technician<sup>3</sup>, Mr. William Azadze Histology Technician<sup>3</sup>, Ms. Sally Elsamanoudi MPH, MD, MBA<sup>1</sup>, Mr. Colin Ng MS<sup>2</sup>, Mr. Gregory Chesnut MD<sup>1,3</sup>, Mr. Leigh Ellis PhD<sup>1</sup>

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<sup>2</sup>AtlasXomics, New Haven, CT, USA.

<sup>3</sup>Urology Service, Walter Reed Army Medical Center, Bethesda, MD, USA

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## Umbrella Cell Maintains the Mechanical Force Barrier in Urinary Bladder via Intermediate Filament Krt20

Student Jun Jiang Master<sup>1</sup>, Student Yongjia Bao Master<sup>1</sup>, Student Tao Huang Bachelor<sup>1</sup>, Student Hanbo Zhang Bachelor<sup>1</sup>, Postdoctoral fellow Jiehui Chen Doctor<sup>2</sup>, Dr. Congcong Dong Doctor<sup>3</sup>, Professor Chunming Guo Doctor<sup>1</sup>

<sup>1</sup>Yunnan University, Kunming, Yunnan, China.

<sup>2</sup>Shanghai Institute of Biochemistry and Cell Biology, Shanghai, Shanghai, China.

<sup>3</sup>Guangdong HybriBio Biotech CO.,Ltd, Guangzhou, Guangdong, China

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## Urothelial Deletion of Arid1a Promotes BBN-Induced Bladder Cancer Progression Partially via Retinoic Acid Signaling Reduction

Student Chunyue Wu Master<sup>1</sup>, Student Xianbin Duan Bachelor<sup>1</sup>, Student Chenglong Sang Bachelor<sup>1</sup>, Student Lu Li Master<sup>1</sup>, Student Qun Wnag Master<sup>1</sup>, Associate Professor Shi Fu Doctor<sup>2</sup>, Professor Cheng Peng Doctor<sup>1</sup>, Professor Haifeng Wang Doctor<sup>2</sup>, Professor Chunming Guo Doctor<sup>1</sup>

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## Targeting the Antioxidant Capacity of the Xc-GPX4 System Suppresses ARID1A-Deficient Bladder Cancer

Student Mengxue Zhao Master's Degree<sup>1</sup>, Student Xuefeng Wang Bachelors' Degree<sup>1</sup>, Student Rui Guo Bachelors' Degree<sup>1</sup>, Student Xianbin Duan Bachelors' Degree<sup>1</sup>, Student Jie Zhou Bachelors' Degree<sup>1</sup>, Student Tao Huang Bachelors' Degree<sup>1</sup>, Associate Professor Shi Fu Doctor's Degree<sup>2</sup>, Professor Haifeng Wang Doctor's Degree<sup>2</sup>, Professor Cheng Peng Doctor's Degree<sup>1</sup>, Professor Chunming Guo Doctor's Degree<sup>1</sup>

<sup>1</sup>Yunnan University, Kunming, Yunnan, China.

<sup>2</sup>Kunming Medical University, Kunming, Yunnan, China

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## Thalidomide Targets Prostatic Fibrosis and Smooth Muscle to Alleviate Lower Urinary Tract Dysfunction

Mr. Ajinkya Limkar BS, Dr. Kimberly Stietz PhD, Ms. Alyssa Lentine BS, Dr. Teresa Liu PhD, Mrs. Emily Ricke MS, Dr. William Ricke PhD

University of Wisconsin Madison, Madison, WI, USA

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## Enhancing Visibility and Engagement: The Impact of the #CAIRIBUatAUA Social Media Campaign at the 2024 American Urological Association Annual Meeting

Ms. Mariana Coughlin MS, Dr. Kristina Penniston PhD

University of Wisconsin School of Medicine and Public Health, Madison, WI, USA

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## Catalyzing Connections to Advance Benign Urology Research

Ms. Mariana Coughlin MS, Dr. Kristina Penniston PhD

University of Wisconsin School of Medicine and Public Health, Madison, WI, USA

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## Nucleosome Remodeling Factor (NURF) Shapes Nuclear Receptor (NR) Signaling in African American Prostate Cancer

Dr. Shahid Hussain PhD<sup>1</sup>, Dr. Debasis Nayak PhD<sup>2</sup>, Dr. Sajad Wani PhD<sup>2</sup>, Dr. Isra Elhussin PhD<sup>3</sup>, Prof. Michael Freeman PhD<sup>1</sup>, Prof. Christopher Coss PhD<sup>2</sup>, Prof. Solomon Rotimi PhD<sup>4</sup>, Prof. Adam Murphy MD<sup>5</sup>, Prof. Clayton Yates PhD<sup>3</sup>, Prof. Moray Campbell PhD<sup>1</sup>

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<sup>2</sup>Ohio State University, Columbus, OH, USA.

<sup>3</sup>Johns Hopkins University, Baltimore, MD, USA.

<sup>4</sup>Covenant University, Ota, Ogun, Nigeria. <sup>5</sup>Northwestern University, Chicago, IL, USA

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## Function of Protein Arginine Methyltransferase 5 (PRMT5) in the Development of Neuroendocrine Prostate Cancer

Ms. Hye Seung Nam M.S., Professor Changdeng Hu PhD

Purdue University, West Lafayette, Indiana, USA

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## Lin28b Promotes Neuroendocrine Prostate Cancer Progression through Regulating RNA Compartmentalization and Selecting Translational Reprogramming

PhD Student, MD Qiongqiong Jia Master<sup>1,2</sup>, Research assistant Ning Xie Master<sup>2</sup>, PhD Baraa Orabi PhD<sup>1</sup>, Assistant Professor Faraz Hach PhD<sup>2</sup>, Associate Professor Xuesen Dong PhD<sup>2,1</sup>

<sup>1</sup>University of British Columbia, Vancouver, British Columbia, Canada.

<sup>2</sup>Vancouver Prostate Centre, Vancouver, British Columbia, Canada

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## Characterization of PARP Inhibitor Response in Prostate Tumor Cells Reveals Drug Tolerant Persistent Phenotype

Ms. Akshaya Karthikeyan BS<sup>1</sup>, Ms. Love Moore BS<sup>1</sup>, Mr. Bryan Correa Gonzalez BS - In progress<sup>1</sup>, Mr. Anamitra Bhaumik BS - In progress<sup>1</sup>, Mr. Ethan Sandoval BS - In progress<sup>1</sup>, Dr. Alan Lombard PhD<sup>1,2</sup>

<sup>1</sup>UC Davis Health, Sacramento, California, USA.

<sup>2</sup>UC Davis Comprehensive Cancer Center, Sacramento, California, USA

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## Correlation of Different Pathological Features in Benign Prostatic Hyperplasia

Ms. Dita Julianingsih MS<sup>1,2</sup>, Ms. Samara Silver BS<sup>1,2</sup>, Mr. Kasun Gunawardena BS<sup>1,2</sup>, Dr. Ilya Sobol MD<sup>3,4</sup>, Dr. Petra Popovics PhD<sup>1,2</sup>

<sup>1</sup>Department of Biomedical and Translational Sciences, Macon & Joan Brock Virginia Health Sciences at Old Dominion University, Norfolk, VA, USA.

<sup>2</sup>Leroy T. Canoles Jr. Cancer Research Center, Macon & Joan Brock Virginia Health Sciences at Old Dominion University, Norfolk, VA, USA.

<sup>3</sup>Department of Urology, Macon & Joan Brock Virginia Health Sciences at Old Dominion University, Norfolk, VA, USA.

<sup>4</sup>Urology of Virginia, Suffolk, VA, USA

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## The Effect of Sleep Fragmentation on Prostate Inflammation

Ms. Mariah Jensen-Wachspress BS<sup>1,2,3</sup>, Ms. Dita Julianingsih MS<sup>1,2</sup>, Ms. Samara Silver BS<sup>1,2</sup>, Mr. Kasun Gunawardena BS<sup>1,2</sup>, Dr. Ilya Sobol MD<sup>4,5</sup>, Dr. Larry Sanford PhD<sup>1,3</sup>, Dr. Petra Popovics PhD<sup>1,2,3</sup>

<sup>1</sup>Department of Biomedical and Translational Sciences, Macon & Joan Brock Virginia Health Sciences at Old Dominion University, Norfolk, VA, USA.

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## **Receptor Tyrosine Kinase Transcriptional Regulation via the Pro-receptor Factor ASCLI in Neuroendocrine Prostate Cancer**

Miss Sachi B Tengse MS<sup>1</sup>, Dr. Song Yi Bae PhD<sup>1</sup>, Dr. Halena R. VanDeusen PhD<sup>1</sup>, Miss Quynh Chau Dinh MS<sup>1</sup>, Miss Hannah E. Bergom BS<sup>1</sup>, Mr Abderrahman Day MS<sup>1</sup>, Miss Ella Boytim BS<sup>1</sup>, Dr. Sylvan C. Baca MD, PhD<sup>2,3</sup>, Miss Yingtian Xie MS<sup>2</sup>, Dr. Henry W. Long PhD<sup>2</sup>, Dr. John K. Lee MD, PhD<sup>4</sup>, Dr. Leigh Ellis PhD<sup>5</sup>, Dr. Justin H. Hwang PhD<sup>1</sup>, Dr. Justin M. Drake PhD<sup>1</sup>

<sup>1</sup>University of Minnesota-Twin Cities, Minneapolis, Minnesota, USA.

<sup>2</sup>Dana-Farber Cancer Institute, Boston, Massachusetts, USA.

<sup>3</sup>Broad Institute of MIT and Harvard, Cambridge, Massachusetts, USA.

<sup>4</sup>University of California, Los Angeles, Los Angeles, California, USA.

<sup>5</sup>Center for Prostate Disease Research, Bethesda, Maryland, USA

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## **Identifying Germline Variants Associated with Metastatic Prostate Cancer Through an Extreme Phenotype Study**

Dr. Colin Collins PhD<sup>1,2</sup>, Dr. Yen-Yi Lin PhD<sup>1</sup>, Dr. Hamideh Sharifi PhD<sup>1</sup>, Dr. Stanislav Volik PhD<sup>1</sup>, Mr. Robert Bell MS<sup>1</sup>, Dr. Funda Sar PhD<sup>1</sup>, Dr. Colin Copper PhD<sup>3,4</sup>, Dr. Ros Eeles PhD<sup>3,5</sup>, Dr. Hsing-Jien Kung PhD<sup>6,7,8</sup>, Dr. Luigi Marchionni MD/PhD<sup>9</sup>, Dr. Joachim Weischenfeldt PhD<sup>10,11,12</sup>, Dr. Ladan Fazli MD<sup>1</sup>, Miss Anne Haegert BS<sup>1</sup>, Dr. Vanessa Hayes PhD<sup>13,14,15,16</sup>, Dr. William Gibson MD/PhD<sup>17,18</sup>

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<sup>3</sup>The Institute of Cancer Research, London, England, United Kingdom.

<sup>4</sup>Norwich Medical School, University of East Anglia, Norwich, England, United Kingdom.

<sup>5</sup>The Royal Marsden NHS Foundation Trust, London, England, United Kingdom.

<sup>6</sup>Research Center of Cancer Translational Medicine, Taipei Medical University, Taipei, Taipei, Taiwan.

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<sup>10</sup>Biotech Research and Innovation Centre (BRIC), University of Copenhagen, Copenhagen, Copenhagen, Denmark.

<sup>11</sup>The Finsen Laboratory, Rigshospitalet, Copenhagen, Copenhagen, Denmark.

<sup>12</sup>Department of Urology, Charité-Universitätsmedizin Berlin, Berlin, Berlin, Germany.

<sup>13</sup>Ancestry and Health Genomics Laboratory, Charles Perkins Centre, School of Medical Sciences, Faculty of Medicine and Health, University of Sydney, Camperdown, NSW, Australia.

<sup>14</sup>School of Health Systems and Public Health, Faculty of Health Sciences, University of Pretoria, Pretoria, Pretoria, South Africa.

<sup>15</sup>Manchester Cancer Research Centre, University of Manchester, Manchester, Manchester, United Kingdom.

<sup>16</sup>Faculty of Health Sciences, University of Limpopo, Turfloop Campus, Sovenga, Limpopo, South Africa.

<sup>17</sup>Department of Medical Genetics, University of British Columbia, Vancouver, BC, Canada.

<sup>18</sup>British Columbia Children's Hospital Research Institute, Vancouver, BC, Canada

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## **Identification of Aggressive Subtypes of AR-Dependent CRPC and Their Drivers Through an Analysis of Super-Enhancer Atlas**

Ms. Mingyu Liu Master of Science<sup>1,2</sup>, Ms. Songqi Zhang Master of Science<sup>1,2</sup>, Mr. Nolan Patten Bachelor of Science (Expected 2025)<sup>1,2</sup>, Dr. Changmeng Cai Doctor of Philosophy<sup>1,2</sup>

<sup>1</sup>Center for Personalized Cancer Therapy, University of Massachusetts Boston, Boston, MA, USA.

<sup>2</sup>Department of Biology, University of Massachusetts Boston, Boston, MA, USA

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## **Transcriptomic Landscape of Tumor Microenvironment in Testicular Seminoma Reveals Novel Molecular Insights into Pathogenesis**

Dr. Krinio Giannikou PhD<sup>1</sup>, Dr. John Lafin PhD<sup>2</sup>, Associate Professor John Sfakianos MD<sup>3</sup>, Associate Professor Amir Horowitz PhD<sup>4,5</sup>, Assistant Professor Benjamin Hopkins PhD<sup>6</sup>, Biostatistician Haocheng Yu MSc<sup>4,5</sup>, Research Associate III Jane Smitham MSc<sup>1</sup>, Associate Professor Christina Jamieson PhD<sup>1</sup>, Professor James Amatruda MD, PhD<sup>7,8</sup>, Associate Professor Aditya Bagrodia MD, FACS<sup>1</sup>

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<sup>6</sup>Department of Genetics and Genomic Sciences, Icahn School of Medicine at Mount Sinai, New York, NY, USA.

<sup>7</sup>Departments of Paediatrics and Medicine, Keck School of Medicine, University of Southern California, Los Angeles, CA, USA.

<sup>8</sup>Cancer and Blood Disease Institute, Children's Hospital Los Angeles, Los Angeles, Los Angeles, CA, USA

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## **PPARG Expression Regulates Tumor Initiation in Mouse Models of Bladder Cancer**

Mr. Gerardo Javier Sanchez BS<sup>1,2</sup>, Dr. Shan Li PhD<sup>3</sup>, Dr. Huiyun Sun PhD<sup>3</sup>, Ms. Alicia Wong BS<sup>3</sup>, Dr. John Lee MD, PhD<sup>1</sup>

<sup>1</sup>UCLA, Los Angeles, CA, USA.

<sup>2</sup>University of Washington, Seattle, WA, USA.

<sup>3</sup>Fred Hutch Cancer Center, Seattle, WA, USA

# Poster Session #1

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## Genomic and Transcriptomic Aberrations Differentiating Teratomas at Metastatic Sites from Primary Germ Cell Tumors of Testis

Dr. Kirill Medvedev PhD<sup>1</sup>, Dr. Anna Savelyeva PhD<sup>2</sup>, Dr. John Labin PhD<sup>2</sup>, Dr. Liwei Jia MD, PhD<sup>3</sup>, Dr. Feng Wang PhD<sup>4,5</sup>, Dr. Yanfeng Zhang PhD<sup>4,5</sup>, Research Associate III Jane Smitham MSc<sup>6</sup>, Associate Professor Christina Jamieson PhD<sup>6</sup>, Associate Professor Amir Horowitz PhD<sup>7</sup>, Associate Professor John Sfakianos MD<sup>7</sup>, Assistant Professor Lin Xu PhD<sup>4,5</sup>, Dr. Krinio Giannikou PhD<sup>6</sup>, Professor James Amatruda MD, PhD<sup>8,9</sup>, Associate Professor Aditya Bagrodia MD, FACS<sup>6</sup>

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<sup>2</sup>Department of Urology, University of Texas Southwestern Medical Center, Dallas, TX, USA.

<sup>3</sup>Department of Pathology, University of Texas Southwestern Medical Center, Dallas, TX, USA.

<sup>4</sup>Department of Pediatrics, University of Texas Southwestern Medical Center, Dallas, TX, USA.

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<sup>7</sup>Department of Urology, Mount Sinai Icahn School of Medicine, New York, NY, USA.

<sup>8</sup>Division of Hematology and Oncology, Cancer and Blood Disease Institute, Children's Hospital Los Angeles, Los Angeles, CA, USA.

<sup>9</sup>Departments of Pediatrics and Medicine, Keck School of Medicine, University of Southern California, Los Angeles, Los Angeles, CA, USA

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## TSC1 Mutant Bladder Cancer Requires TFE3, Identifying a Potential Therapeutic Vulnerability

PhD candidate Clemens Probst MSc<sup>1,2</sup>, Dr. Magdalena Losko PhD<sup>1</sup>, PhD Candidate Klaudia Wiecha MSc<sup>1</sup>, Dr. Elio Adib MD<sup>1</sup>, Dr. Heng Du MD<sup>1</sup>, Associate Professor Michelle Hirsch MD, PhD<sup>3</sup>, Dr. Krinio Giannikou PhD<sup>1,4</sup>, Professor David Kwiatkowski MD, PhD<sup>1</sup>

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<sup>2</sup>Department of Neurological Sciences, Larner College of Medicine, University of Vermont, Burlington, VT, USA.

<sup>3</sup>Department of Pathology, Brigham and Women's Hospital, Harvard Medical School, Boston, MA, USA.

<sup>4</sup>Department of Urology, University of California San Diego, La Jolla, CA, USA

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## Targeting Wnt5A/ROR1 Signaling as Therapy for Metastatic Prostate Cancer

Ms. Jamillah Murtadha MS<sup>1,2</sup>, Ms Niloofar Etemadfard BS<sup>3</sup>, Mr Christopher Oh MS<sup>4</sup>, Ms Michelle Muldong BS<sup>1</sup>, Dr Young Eun Yoon MD, PhD<sup>1</sup>, Ms Jenna Garcia BS<sup>5</sup>, Ms Manal Mohamed BS<sup>1</sup>, Ms Evodie Koutouan MS<sup>1</sup>, Dr Sanghee Lee PhD<sup>1</sup>, Dr Ohseong Kwon MD<sup>1</sup>, Dr Jong Jin Oh MD, PhD<sup>1</sup>, Dr Minsu Kim MD<sup>1</sup>, Dr. Teak Jun Shin MD, PhD<sup>1</sup>, Dr. Krinio Giannikou PhD<sup>1</sup>, Dr Karl Willert PhD<sup>6,7</sup>, Dr Nicholas Cacalano PhD<sup>8</sup>, Dr. Catriona Jamieson MD, PhD<sup>6,9,10</sup>, Dr Christopher Kane MD<sup>1</sup>, Dr. Rana McKay MD<sup>12,11</sup>, Dr Anna Khachatryan Kulidjian MD, MSc, FRCS<sup>12,13</sup>, Dr Charles Prussak PhD, PharmD<sup>2</sup>, Dr. Terry Gaasterland PhD<sup>14</sup>, Dr Christina Jamieson PhD<sup>12</sup>

<sup>1</sup>Dept of Urology, University of California, San Diego, La Jolla, CA, USA.

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<sup>13</sup>Orthopedic Surgery, Scripps Clinic, La Jolla, CA, USA.

<sup>14</sup>Scripps Institute of Oceanography, UCSD, La Jolla, CA, USA

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## The Role of the Small GTPase RhoA in the Human Urinary Bladder

Dr. Helga Balla PharmD<sup>1</sup>, Dr. Kinga Borsodi PharmD<sup>1</sup>, Dr. Ádám Lénárt MD<sup>1,2</sup>, Dr. Péter József Molnár MD, PhD<sup>2</sup>, Dr. István Kenessey MD, PhD<sup>3</sup>, Dr. András Horváth MD, PhD<sup>2</sup>, Dr. Attila Keszthelyi MD<sup>2</sup>, Dr. Miklós Romics MD, PhD<sup>2</sup>, Dr. Attila Majoros MD, PhD<sup>2</sup>, Dr. Péter Nyirády MD, DSc<sup>2</sup>, Dr. Zoltán Benyó MD, DSc<sup>1</sup>

<sup>1</sup>Institute of Translational Medicine, Semmelweis University, Budapest, Budapest, Hungary.

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## ERBB3 Overexpression is Enriched in Racially Diverse Populations of Patients with Localized Prostate Cancer and is Associated with a Unique AR Activity Signature

Dr. Jordan Vellky PhD, Dr. Larisa Nonn PhD, Dr. Natalie Reizine MD, Dr. Donald Vander Griend PhD

University of Illinois at Chicago, Chicago, IL, USA

# Poster Session #1

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## **Notch Regulates Uroplakin Expression in Renal Urothelium**

Ms Kelly Grounds BS<sup>1</sup>, Dr Felipe Rodriguez-Tirado PhD<sup>1</sup>, Mr Glenis Tocaj BA<sup>1</sup>, Dr Mohammad El-Harakeh PhD<sup>1</sup>, Mr Birong Li MS<sup>1</sup>, Dr Brian Becknell MD/PhD<sup>1,2,3</sup>, Dr Ashley Jackson PhD<sup>1,2,3</sup>

<sup>1</sup>Kidney and Urinary Tract Center, Abigail Wexner Research Institute at Nationwide Children's Hospital, Columbus, OH, USA.

<sup>2</sup>Division of Nephrology and Hypertension, Nationwide Children's Hospital, Columbus, OH, USA.

<sup>3</sup>Department of Pediatrics, The Ohio State University College of Medicine, Columbus, OH, USA

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## **PIEZO1 Regulates UPK Expression in the Renal Urothelium during UTO, and in a Novel Renal Urothelium Organoid Model**

Dr. Felipe Rodriguez-Tirado PhD<sup>1</sup>, Mr. Glenis Tocaj BA<sup>1</sup>, Dr. Mohammad El-Harakeh PhD<sup>1</sup>, Mr. Andrew J. Hardman HS<sup>1</sup>, Ms. Oumoukhairy Camara HS<sup>1</sup>, Mrs. Kelly M. Grounds BS<sup>1</sup>, Mr. Birong Li MS<sup>1</sup>, Dr. Brian Becknell MD, PhD<sup>1,2,3</sup>, Dr. Ashley Jackson PhD<sup>1,2,3</sup>

<sup>1</sup>Kidney and Urinary Tract Center, Abigail Wexner Research Institute at Nationwide Children's Hospital, Columbus, Ohio, USA.

<sup>2</sup>Division of Nephrology and Hypertension, Nationwide Children's Hospital, Columbus, Ohio, USA.

<sup>3</sup>Department of Pediatrics, The Ohio State University College of Medicine, Columbus, Ohio, USA

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## **Evaluating the Role of MEIS1 in HOXB13-Dependent Prostate Cancer Progression and AR Signaling**

Ms. Paige Malmrose BS, Mr. Mathias Morales BS, Mr. Ryan Brown BS, Dr. Donald Vander Griend PhD

University of Illinois at Chicago, Chicago, Illinois, USA

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## **PPAR Promotes Uroplakin Expression via GRHL3 During Development and Disease**

Dr. Mohammad El-Harakeh PhD<sup>1</sup>, Mr. Andrew Hardman HS<sup>1</sup>, Dr. Felipe Rodriguez-Tirado PhD<sup>1</sup>, Ms. Oumoukhairy Camara HS<sup>1</sup>, Mr. Glenis Tocaj BA<sup>1</sup>, Mrs. Kelly Grounds BS<sup>1</sup>, Mr. Birong Li MS<sup>1</sup>, Dr. Brian Becknell MD, PhD<sup>1,2</sup>, Dr. Ashley Jackson PhD<sup>1,2</sup>

<sup>1</sup>Nationwide Children's Hospital, Columbus, Ohio, USA.

<sup>2</sup>The Ohio State University College of Medicine, Columbus, Ohio, USA

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## **Exercise Alleviates the Onset of Abnormal Voiding Behavior in Steroid Hormone BPH Mouse Model**

Dr. Teresa Liu PhD<sup>1</sup>, Dr. Laura Pascal PhD<sup>2</sup>, Dr. Scott Bauer MD<sup>3</sup>, Dr. Jules Panksepp PhD<sup>1</sup>, Dr. Donald DeFranco PhD<sup>2</sup>, Dr. William Ricke PhD<sup>1</sup>

<sup>1</sup>University of Wisconsin - Madison, Madison, WI, USA.

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<sup>3</sup>University of California San Francisco, San Francisco, CA, USA



# Poster Session #2

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## **Potential Role for Retinoic Acid Signaling in Renal Urothelial Remodeling During Congenital and Acquired Urinary Tract Obstruction**

Ms. Macie Kercsmar BS<sup>1</sup>, Ms. Hanna Cortado MS<sup>1</sup>, Mr. Birong Li MS<sup>1</sup>, Dr. Xin Wang PhD<sup>1</sup>, Ms. Kelly Grounds BS<sup>1</sup>, Dr. Ashley Jackson PhD<sup>1,2</sup>, Dr. Brian Becknell MD, PhD<sup>1,2</sup>

<sup>1</sup>Nationwide Children's Hospital, Columbus, OH, USA.

<sup>2</sup>The Ohio State University College of Medicine, Columbus, OH, USA

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## **Exploiting ERBB3 Overexpression in Prostate Cancer to Modulate Enzalutamide Sensitivity**

Ms. Hannah Maluvac BS<sup>1</sup>, Dr. Jordan Vellky PhD<sup>1,2</sup>, Mr. Mathias Morales BS<sup>1</sup>, Mr. Ryan Brown BA<sup>1</sup>, Dr. Donald Vander Griend PhD<sup>1,2</sup>, Dr. Natalie Reizine MD<sup>2,3</sup>

<sup>1</sup>University of Illinois at Chicago, Chicago, IL, USA.

<sup>2</sup>The University of Illinois Cancer Center, Chicago, IL, USA.

<sup>3</sup>UI Health Division of Hematology/Oncology, Chicago, IL, USA

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## **Urinary Cytokine Levels Post Neoadjuvant Chemotherapy in Patients with Muscle-Invasive Bladder Cancer**

Dr. David Matye PhD, Mr. Jared Rack MS, Dr. Binh Vo MD, Ms. Erika Abbott BS, Dr. John Taylor III MD, MS, Dr. Benjamin Woolbright PhD

University of Kansas Medical Center, Kansas City, Kansas, USA

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## **POU2F3 and OCA-T1 Drive Lineage Plasticity Towards a Stem-Like Identity Through Chromatin Remodeling and Epigenetic Reprogramming in Advanced Prostate Cancer**

Mr. Caden N. McQuillen MS<sup>1</sup>, Ms. Kate Dunmore MSc<sup>2</sup>, Dr. Alyssa M. Bagadion PhD<sup>3</sup>, Ms. Cara I. McQuillen BS<sup>3</sup>, Dr. Himisha Beltran MD<sup>4</sup>, Dr. David S. Rickman PhD<sup>3</sup>, Dr. Nicholas J. Brady PhD<sup>3</sup>

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<sup>3</sup>Department of Pathology and Laboratory Medicine, Weill Cornell Medicine, New York, NY, USA.

<sup>4</sup>Department of Medical Oncology, Dana-Farber Cancer Institute, Boston, MA, USA

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## **Morphologic Evaluation of the C57Bl/6 Aire<sup>-/-</sup> Mouse as a Model of Benign Prostatic Hyperplasia-Associated Inflammation**

Dr. Meaghan Broman DVM PhD<sup>1</sup>, Dr. Jiang Yang PhD<sup>1,2</sup>, Dr. Dilinear Wusiman MD<sup>1,2</sup>, Dr. Gada Awdalkreem MD<sup>1,2</sup>, Dr. Gregory Cresswell PhD<sup>3</sup>, Dr. Timothy Ratliff PhD<sup>1,2</sup>

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<sup>2</sup>Purdue Institute for Cancer Research, West Lafayette, IN, USA.

<sup>3</sup>George Washington University, Washington, DC, USA

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## **miR-199a is Highly Expressed in Prostate Stromal and a Biomarker of Aggressive Disease in the Serum**

Dr. Graham Read PhD, Dr. Morgan Zenner MD/PhD, Professor Larisa Nonn PhD

University of Illinois Chicago, Chicago, IL, USA

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## **myCAF-Derived Myokines Promote Prostate Tumor Growth via Angiogenesis and Immune Suppression**

Dr. Kent Nastiuk PhD

Roswell Park Comprehensive Cancer Center, Buffalo, NY, USA

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## **Bradykinin-Induced Detrusor Muscle Contraction Activates Both G<sub>q/11</sub>- and G<sub>12/13</sub>-coupled signaling**

Dr. Kinga Borsodi PharmD<sup>1,2</sup>, Dr. Helga Balla PharmD<sup>1</sup>, Dr. Péter József Molnár MD, PhD<sup>1,3</sup>, Dr. Ádám Lénárt MD<sup>1,3</sup>, Dr. István Kenessey MD, PhD<sup>4</sup>, Dr. András Horváth MD, PhD<sup>3</sup>, Dr. Attila Keszthelyi MD, PhD<sup>3</sup>, Dr. Miklós Romics MD, PhD<sup>3</sup>, Dr. Attila Majoros MD, PhD<sup>3</sup>, Dr. Péter Nyirády MD, DSc<sup>3</sup>, Dr. Stefan Offermanns MD, DSc<sup>5</sup>, Dr. Zoltán Benyó MD, DSc<sup>1,2</sup>

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<sup>4</sup>Department of Pathology, Forensic and Insurance Medicine, Budapest, Budapest, Hungary.

<sup>5</sup>Department of Pharmacology, Max Planck Institute for Heart and Lung Research, Bad Nauheim, Hessen, Germany

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## **Disruption of Bone-Tumor Interplay in Metastatic Prostate Cancer**

Dr. Estefania Labanca PhD<sup>1</sup>, Dr. Pablo Sanchis PhD<sup>2</sup>, Dr. Juan Bizzotto PhD<sup>2</sup>, Ms. Agustina Sabater MS<sup>2</sup>, Mr. Gaston Pascual MS<sup>2</sup>, Dr. Nicolas Anselmino PhD<sup>1</sup>, Mr. Peter Shepherd MS<sup>1</sup>, Dr. Jun Yang PhD<sup>1</sup>, Dr. Jiabin Dong PhD<sup>1</sup>, Dr. Ganiraju Manyam PhD<sup>1</sup>, Dr. Bradley Broom PhD<sup>1</sup>, Dr. Eleonora Dondossola PhD<sup>1</sup>, Dr. Patricia Troncoso MD<sup>1</sup>, Dr. Nora Navone MD, PhD<sup>1</sup>, Dr. Paul Corn MD, PhD<sup>1</sup>, Dr. Elba Vazquez PhD<sup>2</sup>, Dr. Christopher Logothetis MD<sup>1</sup>, Dr. Geraldine Gueron PhD<sup>3</sup>

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## **Behavior of Basal Prostate Stem Cells in Resolving and Chronic Prostate Inflammation Models**

Dr. Jiang Yang PhD, Dr. Meaghan Broman DVM, Ph., Dr. Saeed Alqahtani PhD, Ms. Margaret Love Undergraduate, Mr. Blake Ratliff BS, Ms. Lindsey Leonard BS, Mr. Kyle Tong undergraduate, Dr. Timothy Ratliff PhD

Purdue University, West Lafayette, IN, USA

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## **miR-140-3p Promotes Prostatic Fibrosis as Part of a ceRNA Regulatory Network**

Mr. Quentin D'Arcy BS, Ms. Delaney Bowen MS, Mr. Jason Lu BS, Dr. Jill Macoska PhD, Dr. Kourosh Zarringhalam PhD

University of Massachusetts Boston, Boston, MA, USA

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## **The Mechanosensory Transient Receptor Potential Vanilloid 4 Mediates its Effects Through Prostanoids in the Urinary Bladder**

Dr. Ádám Lénárt MD<sup>1,2</sup>, Dr. Kinga Borsodi PharmD<sup>1</sup>, Dr. Helga Balla PharmD<sup>1</sup>, Dr. Péter József Molnár MD, PhD<sup>1,2</sup>, Dr. Bálint Dér MD, PhD<sup>1,2</sup>, Dr. Péter Nyirády MD, DSc<sup>2</sup>, Dr. Zoltán Benyó MD, DSc<sup>1</sup>

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<sup>2</sup>Department of Urology, Semmelweis University, Budapest, Budapest, Hungary

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## **Adipose Triglyceride Lipase (ATGL) Regulates A Lipid-Microtubule Organizing Center (MTOC) Axis To Suppress Prostate Tumor Growth**

Dr. Jennifer A. Doll PhD<sup>1</sup>, Dr. Philip Fitchew MD<sup>2</sup>, Dr. Simon W. Hayward PhD<sup>2</sup>, Dr. Susan E. Crawford MD<sup>2</sup>

<sup>1</sup>University of Wisconsin Milwaukee, Milwaukee, WI, USA.

<sup>2</sup>NorthShore University Research Institute – Endeavor Health, Affiliate of University of Chicago Pritzker School of Medicine, Evanston, IL, USA

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## **FOXA1 Control of MYC-Driven Metabolic Adaptations in Aggressive Prostate Cancer**

Ms Jiaxuan Li MSc<sup>1,2</sup>, Ms Yiming Mao BSc<sup>1,2</sup>, Mr. Jiachen Ji MSc<sup>3,2</sup>, Ms. Léa-Kristine Demers MSc<sup>1,2</sup>, Ms. Michelle Shen MSc<sup>3,2</sup>, Dr. Nadia Boufaied PhD<sup>2</sup>, Mr. Marc Sasseville BSc<sup>4</sup>, Mr. Yves Fortin MSc<sup>4</sup>, Dr. Xiaoqing Wang PhD<sup>5</sup>, Dr. Anna de Polo PhD<sup>3,2</sup>, Mr. Tarek Hallal MSc<sup>6,2</sup>, Dr. Simon Drouin PhD<sup>4</sup>, Dr. Guillaume Bourque PhD<sup>7</sup>, Dr. Leigh Ellis PhD<sup>8</sup>, Dr. X. Shirley Liu PhD<sup>5,9</sup>, Dr. Giorgia Zadra PhD<sup>10</sup>, Dr. Richard Marcotte PhD<sup>4</sup>, Dr. David P. Labbé PhD<sup>1,2,3,6</sup>

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<sup>10</sup>Institute of Molecular Genetics, National Research Council (CNR-IGM), Pavia, LOM, Italy

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## **Acute Versus Chronic CDK12 Loss in Prostate Cancer Drives Different Phenotypes and Therapeutic Vulnerabilities**

Dr Sander Frank PhD<sup>1</sup>, Mr Thomas Persse MS<sup>1</sup>, Ms Ilsa Coleman MS<sup>1</sup>, Dr Armand Bankhead III PhD<sup>1</sup>, Dr Dapei Li MD PhD<sup>1</sup>, Dr Navonil De Sarkar PhD<sup>2</sup>, Mr Divin Wilson BS<sup>2</sup>, Mr Dmytro Rudoy BS<sup>1</sup>, Dr Manasvita Vashisth PhD<sup>1</sup>, Ms Patty Galipeau BS<sup>1</sup>, Mr Michael Yang MS<sup>1</sup>, Mr Brian Hanratty MS<sup>1</sup>, Ms Ruth Dumpit BS<sup>1</sup>, Dr Colm Morrissey PhD<sup>3</sup>, Dr Eva Corey PhD<sup>3</sup>, Dr R. Bruce Montgomery MD<sup>3</sup>, Dr Michael Haffner MD PhD<sup>1</sup>, Dr Colin Pritchard MD, PhD<sup>3</sup>, Dr Valeri Vasioukhin PhD<sup>1</sup>, Dr Gavin Ha PhD<sup>1</sup>, Dr Peter Nelson MD<sup>1</sup>

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<sup>2</sup>Medical College of Wisconsin Cancer Center, Milwaukee, WI, USA.

<sup>3</sup>University of Washington, Seattle, WA, USA

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## **Enhancing the Effect of PARP Inhibitors by Targeting DGAT1-Induced Lipogenesis**

Mr. Md Niaz Morshed PhD Student, Dr. Md Maksudul Alam PhD, Dr. Omar Franco MD, PhD

Louisiana State University Health Shreveport, Shreveport, Louisiana, USA

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## **ARHGEF2 Regulates Lineage Plasticity Promoting Neuroendocrine Differentiation and Treatment Resistance in Advanced Prostate Cancer**

Dr. Shu Ning PhD<sup>1</sup>, Dr. Wei Lou MD<sup>1</sup>, Dr. Amy Leslie MS<sup>1</sup>, Dr. Masuda Sharifi MS<sup>1</sup>, Dr. Zachary Schaaf MS<sup>1</sup>, Dr. Jiaoti Huang MD, PhD<sup>2</sup>, Dr. Allen Gao MD, PhD<sup>1</sup>

<sup>1</sup>University of California Davis, Davis, CA, USA.

<sup>2</sup>Duke University, Durham, NC, USA

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## **Evaluation of RK33:AA Pharmaceutical Cocrystals as a Candidate Therapeutic in AR low/- CRPC**

Ms. Avan Colah BS<sup>1</sup>, Dr. María Vasquez-Ríos PhD<sup>2</sup>, Dr. Leonard MacGillivray PhD<sup>3</sup>, Dr. William Ricke PhD<sup>1</sup>

<sup>1</sup>University of Wisconsin, Madison, WI, USA.

<sup>2</sup>University of Iowa, Iowa City, Iowa, USA.

<sup>3</sup>Université de Sherbrooke, Sherbrooke, Quebec, Canada

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## **High-Density Lipoprotein-Like Nanoparticle Targets Scavenger Receptor Class B Type I and Sensitizes Prostate Cancer Cells to Radiation Therapy**

Ms. Sophia Lamperis PhD Candidate<sup>1</sup>, Ms. M. Fiona Dufficy BS<sup>1</sup>, Dr. Andrea Calvert PhD<sup>1</sup>, Ms. Eliana Crentsil MD, PhD Candidate<sup>1</sup>, Dr. Jonathan Rink PhD<sup>1</sup>, Ms. Eva Yang BS<sup>1</sup>, Ms. Megan Kerber BS<sup>1</sup>, Dr. Ahmad Othman PhD<sup>1</sup>, Dr. Donald Vander Griend PhD<sup>2</sup>, Dr. Edward Schaeffer MD, PhD<sup>1</sup>, Dr. Sean Sachdev MD<sup>1</sup>, Dr. Sarki Abdulkadir MD, PhD<sup>1</sup>, Dr. C. Shad Thaxton MD, PhD<sup>1</sup>

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<sup>2</sup>University of Illinois Chicago, Chicago, IL, USA

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## **Racial Genetic Alterations in the EphB2 Receptor in Prostate Epithelial Cells Increases “Reverse” Ephrin Signaling Promoting Carcinoma Associated Fibroblasts Activation**

Mr. Md Niaz Morshed PhD Student<sup>1</sup>, Dr. Md Maksudul Alam PhD<sup>1</sup>, Dr. Mamatha Kakarla PhD<sup>2</sup>, Dr. Susan E. Crawford PhD<sup>2</sup>, Dr. Simon W Hayward PhD<sup>2</sup>, Dr. Omar Franco PhD<sup>1</sup>

<sup>1</sup>Louisiana State University Health Shreveport, Shreveport, Louisiana, USA.

<sup>2</sup>NorthShore University -Endeavor Health Research Institute, Evanston, Illinois, USA

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## **LX1 Targets Androgen Receptor Variants and AKR1C3 to Overcome Therapy Resistance in Advanced Prostate Cancer**

Dr. Shu Ning PhD<sup>1</sup>, Dr. Cameron Armstrong PhD<sup>1</sup>, Dr. Pui-Kai Li PhD<sup>2</sup>, Dr. Allen Gao MD, PhD<sup>1</sup>

<sup>1</sup>University of California Davis, Sacramento, CA, USA. <sup>2</sup>The Ohio State University, Columbus, OH, USA

# Poster Session #2

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## **Truncal Drivers as Key Predictors of Treatment Outcomes in High TMB and HRD Co-Phenotype Tumors**

Ms. Komal Sharma MS<sup>1,2</sup>, Dr Vineel Bhatlapenumarathi MD<sup>3</sup>, Mr. Divin Wilson MS<sup>2,4,5</sup>, Mr. Bhabishya Neupane MS<sup>6</sup>, Dr Anannya Patwari MD<sup>7</sup>, Dr Ariel Ann Nelson MD<sup>7</sup>, Mr. Bradley W. Taylor MBA, FAMIA<sup>8</sup>, Dr Anai N Kothari MD<sup>9</sup>, Dr Emmanuel S. Antonarakis MD<sup>10</sup>, Dr Deepak Kilari MD<sup>7</sup>, Dr Navonil De Sarkar PhD<sup>11,2,4</sup>

<sup>1</sup>Department of Pathology, Medical College of Wisconsin, Milwaukee, Wisconsin, USA.

<sup>2</sup>MCW Cancer center, Milwaukee, Wisconsin, USA.

<sup>3</sup>Department of Medicine, Division of Hematology and Oncology, MCW, Milwaukee, Wisconsin, USA.

<sup>4</sup>Data Science Institute, MCW, Milwaukee, Wisconsin, USA.

<sup>5</sup>Department of Pathology, MCW, Milwaukee, Wisconsin, USA.

<sup>6</sup>Clinical and Translational Science Institute, MCW, Milwaukee, Wisconsin, USA.

<sup>7</sup>Department of Medicine, Division of Hematology and Oncology, The Medical College of Wisconsin, Milwaukee, Wisconsin, USA.

<sup>8</sup>CTSI, MCW, Milwaukee, Wisconsin, USA.

<sup>9</sup>Department of Surgery, MCW, Milwaukee, Wisconsin, USA.

<sup>10</sup>Department of Medicine, University of Minnesota, Masonic Cancer Center, Minneapolis, Minnesota, USA.

<sup>11</sup>Department of Pathology, Medical College of Wisconsin, Milwaukee, Wisconsin, USA

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## **Development of an NEPC Cell Line from Androgen Sensitive Myc-Cap**

Dr GADA Awdalkreem MBBS,MSc, Dr Nikhila Suresh PhD, Dr Meaghan Broman PhD/DVM, Dr Nadia Lanman PhD, Dr Jiang Yang PhD, Dr Timothy Ratliff PhD

Purdue University, West Lafayette, IN, USA

**81**

## **Targeting Synaptotagmin 4 to Overcome Enzalutamide and Abiraterone Resistance in Castration Resistance Prostate Cancer**

Ms. Masuda Sharifi M.S, Dr. Shu Ning Ph.D, Mx. Amy Leslie B.S, Mr. Zachary Schaaf B.S, Dr. Wei Lou M.D, Dr. Allen Gao M.D/Ph.D

UC Davis, Sacramento, CA, USA

**82**

## **MEIS1 and HOXB13 Mediated Proteoglycan Regulation Suppresses Prostate Cancer**

Mr. Matias Morales MS, Ms. Paige Malmrose BS, Mr. Ryan Brown BS, Dr. Srikanth Perike PhD, Dr. Donald Vander Griend PhD

University of Illinois, Chicago, IL, USA

**83**

## **The miR-888 Cluster Accelerates Prostate Neuroendocrine Transdifferentiation in LNCaP Cells**

Mr. Trevor Fachko MD, Ms. Katherine Routon MS, Dr. Aurora Esquela Kerscher PhD, MS

Eastern Virginia Medical School, Norfolk, VA, USA

**84**

## **ADC Co-Targeting of Metastatic Castration-Resistant Prostate Cancer**

Dr. Galina Semenova MD, PhD<sup>1</sup>, Ms. Ilsa Coleman MS<sup>1</sup>, Dr. Colm Morrissey PhD<sup>2</sup>, Dr. Peter Nelson MD<sup>1</sup>, Dr. John Lee MD, PhD<sup>3</sup>

<sup>1</sup>Fred Hutchinson Cancer Center, Seattle, WA, USA.

<sup>2</sup>University of Washington, Seattle, WA, USA.

<sup>3</sup>UCLA Jonsson Comprehensive Cancer Center, Los Angeles, CA, USA

**85**

## **Staphylococcus Epidermidis-Derived Lipoteichoic Acid Promotes PD-1 Inhibitory Signaling and Reduced Endoplasmic Reticulum Stress in Sensory Neurons to Mediate Anti-Nociception.**

Dr. Zhiqiang Liu MD, PhD

Northwestern University, Chicago, IL, USA

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## **Twist-1 Levels are Increased During PCa Progression, and it is a Major Driver of Cellular Plasticity**

Dr Guanyi Zhang PhD<sup>1</sup>, Dr Eileen Nogueira Lima PhD<sup>1</sup>, Dr Pramod K.C. PhD<sup>1</sup>, Dr Mousa Vatanmakanian PhD<sup>1</sup>, Ms. Sweaty Koul MSc<sup>1</sup>, Dr Hari Koul PhD<sup>1,2</sup>

<sup>1</sup>LSUHSC, New Orleans, LA, USA

<sup>2</sup>VAMC-SLVHCS, New Orleans, LA, USA

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## **Mitochondrial Heteroplasmy Burden is Associated with Lower Urinary Tract Symptom Severity in Older Men**

Ms. Alexis Adrian BA<sup>1</sup>, Dr. Gregory Tranah PhD<sup>2,3</sup>, Dr. William Ricke PhD<sup>1</sup>, Dr. Scott Bauer MD, ScM<sup>4,3</sup>

<sup>1</sup>University of Wisconsin - Madison, Madison, Wisconsin, USA.

<sup>2</sup>California Pacific Medical Center Research Institute, San Francisco, California, USA.

<sup>3</sup>University of California San Francisco, San Francisco, California, USA.

<sup>4</sup>San Francisco VA Medical Center, San Francisco, California, USA

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## **Dissecting The Molecular Interplay Between AR and AP-1 IN Prostate Tumorigenesis**

Mr Jude Owiredu BS<sup>1</sup>, Ms Un In Chan BS<sup>1</sup>, Dr Xuanrong Chen PhD<sup>1,2</sup>, Dr Jiansheng Wu PhD<sup>1,2</sup>, Dr Dawid Nowak PhD<sup>1</sup>, Dr Andrea Sboner PhD<sup>3,4</sup>, Dr Christopher Barbieri MD, PhD<sup>1,2</sup>

<sup>1</sup>Sandra and Edward Meyer Cancer Center, Weill Cornell Medicine, New York, NY, USA.

<sup>2</sup>Department of Urology, Weill Cornell Medicine, New York, NY, USA.

<sup>3</sup>Caryl and Israel Englander Institute for Precision Medicine, Weill Cornell Medicine, New York, NY, USA.

<sup>4</sup>Institute for Computational Biomedicine, Weill Cornell Medicine, New York, NY, USA

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## **Targeting Cadherin-X with CAR-T Therapy: A Novel Approach for the Treatment of Prostate Cancer**

Ms. Shiyu Wang Master of Science<sup>1,2</sup>, Ms. Loan Duong BS<sup>1,2</sup>, Mr. Guoqiang Liu BS<sup>1,2</sup>, Dr. Xin Lu PhD<sup>1,2</sup>

<sup>1</sup>University of Notre Dame, Notre Dame, IN, USA.

<sup>2</sup>Harper Cancer Research Institute (HCRI), Notre Dame, IN, USA

# Poster Session #2

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## **SPDEF Modulates Transcriptional Output to Regulate Multiple Pathways: Immune and Inflammatory Pathways as Potential Hubs Targeted by SPDEF in RC77/T Cells, A Line of Prostate Cancer Cells of African American Origin**

Dr Mousa Vatanmakanian PhD<sup>1</sup>, Dr Jovanny Zabaleta PhD<sup>1</sup>, Ms Sweaty Koul MSc<sup>1</sup>, Dr Augusto Ochoa MD<sup>1</sup>, Dr Hari Koul PhD<sup>1,2</sup>

<sup>1</sup>LSUHSC, New Orleans, LA, USA.

<sup>2</sup>VAMC-SLVHCS, New Orleans, LA, USA

**91**

## **Elucidating Global Metabolic Alterations Associated with Phosphoserine Phosphatase (PSPH) Suppression in Prostate cancer Cell Lines**

Scientist Liankun Song PhD, Specialist Jun Xie bachelor, Professor Xiaolin Zi MD, PhD

University of California, Irvine, Orange, CA, USA

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## **IGFBP3 Signaling Promotes Resistance to Next-Generation Antiandrogens Therapeutics in Advanced Prostate Cancer**

Mx. Amy Leslie B.S., Dr. Shu Ning PhD, Miss Masuda Sharifi M.S., Mr. Zachary Schaaf B.S., Mrs. Wei Lou M.S., Dr. Alan Lombard PhD, Dr. Chengfei Liu PhD, MD, Dr. Allen Gao PhD, MD

University of California Davis, Davis, CA, USA

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## **PDEF Restricts Cellular Plasticity and Resistance to AR Pathway Inhibitor Enzalutamide in Prostate Cancer**

Santosh Lamichhane PhD<sup>1,2</sup>, MS Sweaty Koul MSc<sup>1</sup>, Prof Hari K Koul PhD<sup>1,2</sup>

<sup>1</sup>LSUHSC, New Orleans, LA, USA.

<sup>2</sup>VAMC-SLVHCS, New Orleans, LA, USA

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## **Regulation of YAP1/TAZ Transcriptional Targets in Prostate Cancer by PDEF**

Dr Vandana Mohan PhD<sup>1,2</sup>, Dr Praveen Jaiswal PhD<sup>1</sup>, Dr Mousa Vatanmakanian PhD<sup>1</sup>, Dr Guanyi Zhang PhD<sup>1</sup>, Ms Sweaty Koul MSc<sup>1,2</sup>

<sup>1</sup>LSUHSC, New Orleans, LA, USA.

<sup>2</sup>VAMC-SLVHCS, New Orleans, LA, USA

**95**

## **Modulation of FOXM1 Isoform Expression in Cisplatin Resistant Bladder Cancer**

Dr. Christopher Lucchesi PhD<sup>1,2</sup>, Dr. Neelu Batra PhD<sup>1</sup>, Mr. Connor Suen BS<sup>1</sup>, Mrs. Avani Durve BS<sup>1</sup>, Mr. Aayush Verma BS<sup>1</sup>, Dr. Paramita Ghosh PhD<sup>1,2</sup>

<sup>1</sup>UC Davis, Davis, CA, USA.

<sup>2</sup>Department of Veterans Affairs, Mather, CA, USA

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## **Hematuria protects Urothelium from Cell Death**

Dr. Jonathan Barasch, MD, PhD

Columbia, New York, NY, USA

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## **Enzalutamide Resistance May be Mediated by Amino Acid Transport in Prostate Cancer Cells**

Mr. Bennett Allison BS, Ms. Rebecca Wynn BS, Dr. Puneet Sindhvani MD, MS, Dr. Firas Petros MD, Dr. Nagalakshmi Nadiminty PhD

University of Toledo Health Science Campus, Toledo, Ohio, USA

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## **Kidney in a Bag: A Low-Cost Strategy for Establishing High-Performance Normothermic Ex Vivo Organ Perfusion**

Dr. Heiko Yang MD, PhD<sup>1,2</sup>, Mr. Nicholas Higgins BS<sup>1</sup>, Ms. Jean Lee BS<sup>1,2</sup>, Ms. Natalie Meyer BS<sup>1,2</sup>, Dr. Tom Chi MD, MBA<sup>1</sup>, Dr. James Gardner MD, PhD<sup>1</sup>, Dr. Shuvo Roy PhD<sup>1</sup>, Dr. Alan Flake MD<sup>3</sup>, Dr. Marshall Stoller MD<sup>1</sup>

<sup>1</sup>University of California San Francisco, San Francisco, CA, USA.

<sup>2</sup>University of Colorado, Aurora, CO, USA.

<sup>3</sup>Childrens Hospital of Philadelphia, Philadelphia, PA, USA

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## **Development And Characterization Of A Selective Arginine Vasopressin Receptor 1A (AVPR1A) Antagonist For Treating Castration Resistant Prostate Cancer**

Dr. Nahuel Peinetti PhD<sup>1,2</sup>, Mr. Kyutae Lee BS<sup>1</sup>, Mr. Benjamin Sherman BA<sup>1</sup>, Dr. Daniel Isom PhD<sup>1,2</sup>, Dr. Yangbo Feng PhD<sup>1,2</sup>, Dr. Kerry Burnstein PhD<sup>1,2,3</sup>

<sup>1</sup>University of Miami Miller School of Medicine, Miami, FL, USA.

<sup>2</sup>Sylvester Comprehensive Cancer Center, Miami, FL, USA.

<sup>3</sup>Bruce W. Carter Department of Veterans Affairs Medical Center, Miami, FL, USA

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## **Exploiting BUB1B as an Untapped Vulnerability in Castration Resistant Prostate Cancer**

Dr. Maria Martinez PhD<sup>1,2,3</sup>, Miss Cynthia Blanco BS<sup>4,3</sup>, Dr Rolando Lyles PhD<sup>5</sup>, Miss Catherine Glenny-Pescov BS<sup>4</sup>, Dr Stephan Schürer PhD<sup>4,2</sup>, Dr Kerry Burnstein PhD<sup>4,2,3</sup>

<sup>1</sup>Department of Molecular and Cellular Pharmacology<sup>1</sup>, University of Miami Miller School of Medicine, Miami, FL, USA.

<sup>2</sup>Sylvester Comprehensive Cancer Center, Miami, FL, USA.

<sup>3</sup>Bruce W. Carter Department of Veterans Affairs Medical Center, Miami, FL, USA.

<sup>4</sup>Department of Molecular and Cellular Pharmacology, Miami, FL, USA.

<sup>5</sup>Graduate Program in Cancer Biology, Miami, FL, USA

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## **Vitamin D Deficiency Leads to a Proinflammatory Microenvironment in the Prostate that Supports Carcinogenesis**

Ms. Adriana Duraki BS in Molecular and Cellular Biology

University of Illinois Chicago, Chicago, IL, USA

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## **Explore Biological Vectors to Deliver CRISPR Machinery Against Androgen Receptor in Prostate Cancer Cells**

Mr. Chenming Ye B.S., Dr. Houjian Cai Ph.D.

UGA, Athens, GA, USA

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## **The Association between Obesity, Diabetes, and Prostate Cancer Aggressiveness in Louisiana**

Dr Denise Danos PhD, Dr Yound Yi PhD, Dr Xiao-Cheng Wu MD, MPH, Dr Augusto Ochoa MD, Dr Hari K Koul PhD

LSUHSC, New Orleans, LA, USA

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## **Delineating the Role of miR-21 in the Prostate Tumor Immune Microenvironment**

Dr. Polina Sysa-Shah MD, Dr. Shireen Chikara PhD, Dr. Tim Krueger PhD, Dr. Fatema Rafiqi PhD, Dr. Qizhi Zheng MD, Dr. Sudipto Ganguly PhD, Dr. Nate Brennen PhD, Dr. Jelani Zarif PhD, Dr. Kenji Zennami MD, Dr. Angelo de Marzo MD, PhD, Dr. Vasana Yegnasubramanian MD, PhD, Dr. Shawn E. Lupold PhD

Johns Hopkins University, Baltimore, MD, USA

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## **Targeted Delivery of AR-V7 siRNA with Bivalent PSMA Aptamers Effectively Suppresses the Growth of Enzalutamide-Resistant Prostate Cancer**

Chief Scientific Officer Hongyan Liu PhD

Dotquant, Seattle, WA, USA. Augusta University, Augusta, GA, USA

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## **PRDM16 Transcriptionally Regulates an Intrinsic Prostate Cancer Dormancy Program**

Mr. Mostafa Nasr BS<sup>1,2</sup>, Dr. Tao Li MD<sup>2</sup>, Dr. Jeremy Frieling PhD<sup>2</sup>, Dr. Ryan Bishop PhD<sup>2</sup>, Dr. Conor Lynch PhD<sup>2</sup>

<sup>1</sup>University of South Florida, Tampa, Florida, USA.

<sup>2</sup>H.Lee Moffitt Cancer Center, Tampa, Florida, USA

**107**

## **Identification of a Distinct Subgroup Exhibiting Luminal Signatures via Single-Cell RNA Sequencing of Prostate Stem Cell Populations**

Dr. Nikhila T. Suresh PhD<sup>1,2</sup>, Dr. Jiang Yang PhD<sup>1,2</sup>, Dr. Meaghan M. Broman DVM, PhD, DACVP<sup>1,2</sup>, Dr. Nadia A. Lanman PhD<sup>1,2</sup>, Dr. Saeed Alqahtani PhD<sup>1,2</sup>, Dr. Timothy L. Ratliff PhD<sup>1,2</sup>

<sup>1</sup>Department of Comparative Pathobiology, Purdue University, West Lafayette, IN 47907, USA.

<sup>2</sup>Purdue Institute for Cancer Research, West Lafayette, IN 47907, USA

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## **Exploring Biomarkers in a Phase II Trial of Sacituzumab Govitecan in Advanced Prostate Cancer**

MS Jacquie Lyman MS<sup>1</sup>, Dr Todd Knutson PhD<sup>2</sup>, Dr Yingming Li MD<sup>1</sup>, Dr Jamie Sperger PhD<sup>3</sup>, Dr Christos Kyriakopoulos MD<sup>3</sup>, Dr Susan Slovin MD, PhD<sup>4</sup>, Dr Scott Tagawa MD<sup>5</sup>, Dr Joshua Lang MD<sup>3</sup>, Dr Scott Dehm PhD<sup>1</sup>

<sup>1</sup>Masonic Cancer Center, Minneapolis, MN, USA.

<sup>2</sup>Minnesota Supercomputing Institute, Minneapolis, MN, USA.

<sup>3</sup>University of Wisconsin, Madison, WI, USA.

<sup>4</sup>Memorial Sloan Kettering Cancer Center, New York, NY, USA.

<sup>5</sup>Weill Cornell Medicine, New York, NY, USA

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## **GAPDH Overactivation Promotes Treatment-Induced Neuroendocrinal Progression in Prostate Cancer**

Dr. Wang Liu PhD, Mr. Shlok Chauhan B.S., Prof. Benyi Li MD/PhD

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## **The Role of GATA2 and TWIST1 in Prostate Cancer Disrupted Differentiation**

Graduate Student Carina Magdaleno PhD in Cancer Biology

University of Arizona, Tucson, Arizona, USA

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## **Regulation of WNT Signaling in Prostate Stromal Cells: Impact of Androgen on Gene Expression and Implications for Prostate Development and Disease**

Ms. Samyukta Sundaram B.Eng, Mr. Hunain Khawaja M.S., Ms. Neha Sane M.S., Dr. Cindy Miranti Ph.D

University of Arizona, Tucson, Arizona, USA

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## **Mechanical Regulation of Prostate Differentiation and Tumorigenesis**

Mr. Hunain Khawaja MS, Dr. Cynthia Miranti PhD

University of Arizona, Tucson, AZ, USA

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## **Bone Stromal Cell Matrix Enhances Osteoblast Differentiation**

Undergraduate Research Assistant Adrian Bernal Rios n/a, Principle Investigator Cynthia Miranti Ph.D. in Biochemistry - Harvard Medical School, PhD Student Hunain Khawaja George Washington University, MS, Bioinformatics

University of Arizona, Tucson, AZ, USA

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## **CHD1 Loss Fuel SPOP-deficient Prostate Cancer via Reprogramming Lipid Metabolism**

Assistant Professor Di Zhao PhD

The University of Texas MD Anderson Cancer Center, Houston, TX, USA

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## **Interferon-Gamma Signaling Represses FOXA1 and Drives a Basal Transcriptional Program in Muscle-Invasive Bladder Cancer (MIBC)**

Research Associate Hironobu Yamashita PhD<sup>1</sup>, Graduate Student Shamara Lawrence BS<sup>1</sup>, Research Technologist Lauren Shuman MS<sup>1</sup>, Professor Jay Raman MD<sup>1</sup>, Professor Monika Joshi MD<sup>2</sup>, Associate Professor Gregory Yochum PhD<sup>1</sup>, Professor Xue-Ru Wu MD<sup>3</sup>, Pathologist Hikmat Al-Ahmadie MD<sup>4</sup>, Assistant Professor Von Walter PhD<sup>1</sup>, Associate Professor David Degraff PhD<sup>1</sup>, Professor Joshua Warrick MD<sup>1</sup>

<sup>1</sup>Penn State College of Medicine, Hershey, PA, USA.

<sup>2</sup>Penn State Cancer Institute, Hershey, PA, USA.

<sup>3</sup>New York University, New York, NY, USA.

<sup>4</sup>Memorial Sloan Kettering Cancer Center, New York, NY, USA

**117**

## **Aneuploidy-Associated SQLE Gain Promotes Prostate Cancer Aggressiveness by Altering Lipid Metabolism**

Ms. Chloe Springer BS<sup>1,2</sup>, Mr. Thomas Janas BS<sup>1,2</sup>, Ms. Elise DeArment MS<sup>1,2</sup>, Dr. Konrad Stopsack MD<sup>3,4</sup>, Dr. Daniel Schmidt MD<sup>5,6,7</sup>, Dr. Duanduan Ma PhD<sup>5,8</sup>, Dr. Zhe Li PhD<sup>7,9</sup>, Dr. Matthew Vander Heiden MD/PhD<sup>5,10,11</sup>, Dr. Kathryn Penny PhD<sup>3,7,9</sup>, Dr. Paul Scheet PhD<sup>12</sup>, Dr. Tamara Lotan PhD<sup>13</sup>, Dr. Ayesha Shafi PhD<sup>1,2</sup>, Dr. Angelika Amon PhD<sup>5,11</sup>, Dr. Lorelei Mucci PhD<sup>5</sup>, Dr. Xiaofeng Su PhD<sup>1,2,5,11,14</sup>

<sup>1</sup>Center for Prostate Disease Research, Murtha Cancer Center Research Program, Department of Surgery, Uniformed Services University of the Health Sciences, Bethesda, MD, USA

<sup>2</sup>The Henry M Jackson Foundation for the Advancement of Military Medicine Inc., Bethesda, MD, USA.

<sup>3</sup>Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA, USA.

<sup>4</sup>Clinical and Translational Epidemiology Unit, Massachusetts General Hospital and Harvard Medical School, Boston, MA, USA.

<sup>5</sup>David H. Koch Institute for Integrative Cancer Research, Massachusetts Institute of Technology, Cambridge, MA, USA.

<sup>6</sup>Department of Radiation Oncology, Beth Israel Deaconess Medical Center, Boston, MA, USA.

<sup>7</sup>Harvard Medical School, Boston, MA, USA.

<sup>8</sup>The Barbara K. Ostrom (1978) Bioinformatics and Computing Facility in the Swanson Biotechnology Center, Koch Institute for Integrative Cancer Research, Massachusetts Institute of Technology, Cambridge, MA, USA.

<sup>9</sup>Brigham and Women's Hospital, Boston, MA, USA.

<sup>10</sup>Dana-Farber Cancer Institute, Boston, MA, USA.

<sup>11</sup>Department of Biology, Massachusetts Institute of Technology, Cambridge, MA, USA.

<sup>12</sup>Department of Epidemiology, The University of Texas MD Anderson Cancer Center, Houston, TX, USA.

<sup>13</sup>Department of Pathology, Johns Hopkins University School of Medicine, Baltimore, MD, USA.

<sup>14</sup>Genitourinary Malignancies Branch, National Cancer Institute, National Institutes of Health, Bethesda, MD, USA

**118**

## **Elucidating a Role for Bacterial in Calcium Oxalate Stone Formation through High-Resolution Imaging**

Dr Kymora Scotland MD,PhD<sup>1</sup>, Ms Ava Mousavi BS<sup>1</sup>, Dr Reyhaneh Nazarian PhD<sup>1</sup>, Mr William Schmidt BS<sup>1</sup>, Dr Aaron Celestian PhD<sup>2</sup>, Ms Jiahui Li BS<sup>3</sup>, Dr Qian Chen PhD<sup>3</sup>, Dr Gerard Wong PhD<sup>1</sup>

<sup>1</sup>UCLA, Los Angeles, CA, USA.

<sup>2</sup>NHMLAC, Los Angeles, CA, USA.

<sup>3</sup>University of Illinois, Urbana-Champaign, IL, USA **119**

## **Identifying and Targeting Novel Kinase Regulators for Cancer Metastasis**

Professor Wenliang Li PhD

University of Texas Health Science Center at Houston, Houston, TX, USA

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## **Iron in Tumor microenvironment Regulates Prostate Cancer Proliferation**

Ms Jennifer Rooks BSc, Mr Caleb Taylor High School Diploma, Dr Asmaa El-Kenawi PhD (Pharm)

Indiana University, Indianapolis, IN, USA

# SBUR Meeting Space

**A** **Poster Sessions**

*Convention Foyer*

**B** **Networking Event**

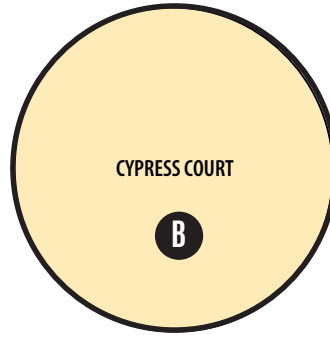
*Cypress Court*

**C** **General Sessions**

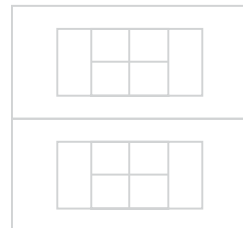
*Grand Ballroom DEF*

**D** **Registration**

*Grand Ballroom Foyer*



TENNIS COURTS



TERRAZA



THE SALON & DAY SPA

MAIN POOL

OCOTILLO

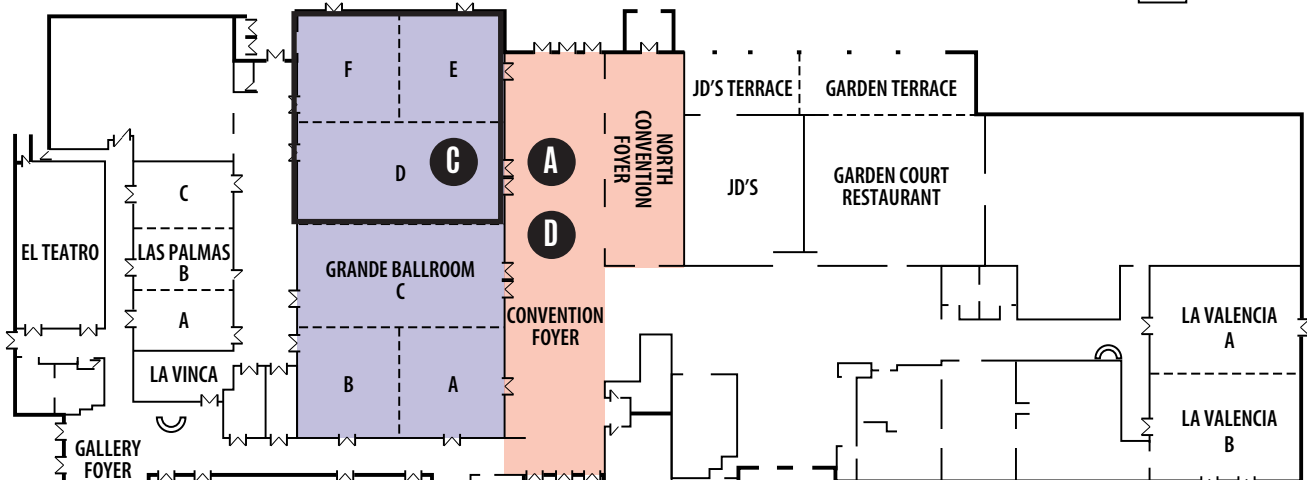
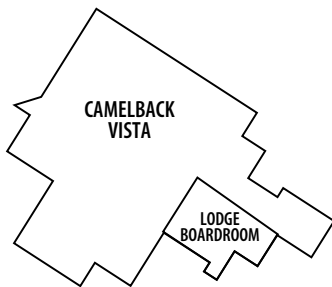
ARIZONA ROOM

HUMAN RESOURCES

CHOLLA

CAFE CABANA

CACTUS ROOM A & B



# Thank You

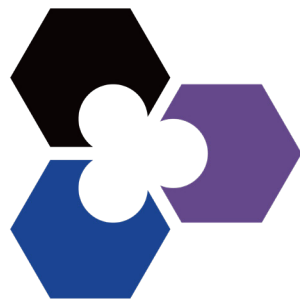
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