

Advances in Basic Urological Research: Cellular Diversity and Crosstalk

NOVEMBER 9-12, 2023 | SAN ANTONIO, TEXAS

## Committee

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## Highlights

### Lecture Highlights

Leland W.K. Chung Lecturer:

*Owen Witte, MD*

*Immune Targeting Strategies for Prostate Cancer*

AUA Lecturer:

*Aria Olumi, MD*

*Alternative Androgen-Independent Pathways for Prostatic Growth"*

## AGENDA

THURSDAY, NOVEMBER 9, 2023

(All Times are in Central Time Zone)

3:00 pm - 5:30 pm	<p>Trainee Affairs Symposium</p> <p><i>John Lee, MD, PhD, Trainee Affairs Committee Chair</i></p> <ul style="list-style-type: none"> <li>• How to Gain Bioinformatic/Technical Training</li> <li>• Career Panel Discussion (Industry, NIH and Academia)</li> <li>• Grant Writing Tips (F31/F32/K01 - Early Career Grants)</li> </ul>
6:00 pm - 6:10 pm	<p>Welcome and Introductory Remarks</p> <p><i>Will Ricke, PhD, SBUR President</i></p>
6:10 pm - 7:10 pm	<p>Leland W.K. Chung Lecture "Immune Targeting Strategies for Prostate Cancer"</p> <p><i>Owen Witte, MD</i></p>
7:10 pm - 7:30 pm	<p>EULA and Donald S. Coffey Innovative Research Award Short Talks</p>
7:30 pm - 8:30 pm	<p>Networking and Welcome Reception</p>

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FRIDAY, NOVEMBER 10, 2023		(All Times are in Central Time Zone)
<b>9:00 am - 11:30 am</b>	<b>Plenary Session 1: New Models and Technologies for Urological Research</b>	
9:00 am - 9:25 am	Chronic Pelvic Pain: Experimental Findings in Animal Models And Potential Therapeutics <i>Kenny Roman, PhD</i>	
9:25 am - 9:50 am	3D Spatial Biology <i>Nicholas Reder, MD, MPH</i>	
9:50 am - 10:15 am	Targeting Undruggable Transcription Factors in Lethal Prostate Cancer by CRISPR/Cas13-Based Nanotherapy <i>Qianben Wang, PhD</i>	
<b>10:15 am - 10:30 am</b>	<b>Travel Award Presentation #1</b>	
10:30 am - 10:55 am	Experimental Evolutionary Approaches for Investigating the Urobiome <i>Megan Behringer, PhD</i>	
10:55 am - 11:20 am	Novel Mechanism-Centric Network-Based Algorithms to Elucidate Therapeutic Response in Prostate Cancer <i>Antonina Mitrofanova, PhD</i>	
<b>11:20 am - 11:30 am</b>	<b>Coffee Break</b>	
<b>11:30 am - 1:25 pm</b>	<b>Plenary Session 2: Cellular Heterogeneity and Interaction in Urological Tissues</b>	
11:30 am - 11:55 am	A Cellular Atlas of the Human Lower Urinary Tract <i>Douglas Strand, PhD</i>	
11:55 am - 12:20 pm	Pparg Signaling Programs Urothelial Cells During Homeostasis <i>Cathy Mendelsohn, PhD</i>	
<b>12:20 pm - 12:35 pm</b>	<b>Travel Award Presentation #2</b>	
12:35 pm - 1:00 pm	Stromal Androgen Signaling Acts as Stem Cell Niches in Prostate Development and Morphogenesis <i>Zijie Sun, MD, PhD</i>	
1:00 pm - 1:25 pm	New Insights into Kidney Innervation: From Form to Functional Roles in Development <i>Lori O'Brien, PhD</i>	
<b>1:25 pm - 2:10 pm</b>	<b>Lunch</b>	
<b>2:10 pm - 4:05 pm</b>	<b>Plenary Session 3: Genetic and Epigenetic Alterations of Epithelia in Urological Pathologies</b>	
2:10 pm - 2:35 pm	Modeling AR Reprogramming in Prostate Cancer Pathogenesis <i>Christopher Barbieri, MD, PhD</i>	
2:35 pm - 3:00 pm	Modulation of Androgen Receptor Signaling by Germline and Somatic Mutations in Prostate Cancer <i>Jun Luo, PhD</i>	
<b>3:00 pm - 3:15 pm</b>	<b>Travel Award Presentation #3</b>	
3:15 pm - 3:40 pm	Non-coding RNAs in Prostate Cancer Lineage Plasticity and Drug Resistance <i>Michael Freeman, PhD</i>	
3:40 pm - 4:05 pm	Emerging Biomarkers and Therapeutic Targets for Neuroendocrine Prostate Cancer <i>Himisha Beltran, MD</i>	
<b>4:05 pm - 4:15 pm</b>	<b>Coffee Break</b>	
4:15 pm - 4:35 pm	AUA Office of Research Update	
4:35 pm - 5:35 pm	Poster Session	

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SATURDAY, NOVEMBER 11, 2023		(All Times are in Central Time Zone)
<b>9:00 am - 10:55 am</b>	<b>Plenary Session 4: Stromal Microenvironment of Urological Pathologies</b>	
9:00 am - 9:25 am	Impact of Bone Microenvironment on Prostate Cancer Dormancy, Metastasis, and Therapeutic Resistance <i>Xiaohong Li, PhD</i>	
9:25 am - 9:50 am	Bone Microenvironment Specific Metabolic Adaptations Drives Metastatic Prostate Cancer <i>Subhamoy Dasgupta, PhD</i>	
<b>9:50 am - 10:05 am</b>	<b>Travel Award Presentation #4</b>	
10:05 am - 10:30 am	Exploring the Tumor Microenvironment in Bladder Cancer Metastasis <i>Hung-Ming Lam, PhD</i>	
10:30 am - 10:55 am	Targeting Fibrosis in the Lower Urinary Tract for the Treatment of BPH/LUTS <i>Will Ricke, PhD</i>	
10:55 am - 11:55 am	Dr. Leland W.K. Chung Mentorship Award	
<b>11:55 am - 12:40 pm</b>	<b>Lunch</b>	
<b>12:40 pm - 2:35 pm</b>	<b>Plenary Session 5: Immunoregulation in Urological Diseases</b>	
12:40 am - 1:05 am	Immune Mechanisms Shape the Clonal Landscape During Early Progression of Prostate Cancer <i>Flaminia Talos, MD, PhD</i>	
1:05 pm - 1:30 pm	Persistent Inflammation as a Driving Force in BPH Pathogenesis <i>Simon Hayward, PhD</i>	
<b>1:30 pm - 1:45 pm</b>	<b>Travel Award Presentation #5</b>	
1:45 pm - 2:10 pm	The Immune System and the Testosterone Paradox in Prostate Cancer <i>Sushant Kachhap, PhD</i>	
2:10 pm - 2:35 pm	Immunoregulation of Bladder Cancer by Oncogene Activation <i>William Kim, MD</i>	
<b>2:35 pm - 2:50 pm</b>	<b>Coffee Break</b>	
2:50 pm - 4:50 pm	Discussion Session	
<b>4:50 pm - 5:20 pm</b>	<b>Awards Ceremony</b>	
5:20 pm - 5:50 pm	SBUR Business Meeting	
5:50 pm - 6:50 pm	Poster Session	
SUNDAY, NOVEMBER 12, 2023		
9:00 am - 10:00 am	AUA Lectureship "Alternative Androgen-Independent Pathways for Prostatic Growth." <i>Aria Olumi MD</i>	
<b>10:00 am - 12:45 pm</b>	<b>Plenary Session 6: Confounding Factors of Urological Pathologies</b>	
10:00 am - 10:25 am	Environmental Contaminants as Risk Factors for Lower Urinary Tract Symptoms <i>Kimberly Stietz, PhD</i>	
10:25 am - 10:50 am	Alternative Polyadenylation Transcriptome-wide Association Study (3P-aTWAS) Identifies Novel APA-linked Susceptibility Genes in Prostate Cancers <i>Wei Li, PhD</i>	
<b>10:50 am - 11:05 am</b>	<b>Travel Award Presentation #6</b>	
<b>11:05 am - 11:15 am</b>	<b>Coffee Break</b>	
11:15 am - 11:40 am	Aging and B Cell Response to BCG Immunotherapy in Bladder Cancer <i>Madhuri Koti, PhD</i>	
11:40 am - 12:05 pm	AR signaling in Prostate Cancer of African American <i>Salma Kaochar, PhD</i>	
<b>12:05 pm - 12:20 pm</b>	<b>Travel Award Presentation #7</b>	
12:20 pm - 12:45 pm	Tumor Microenvironment Mediators of Racial Disparities in Prostate Carcinogenesis <i>Omar Franco, MD, PhD</i>	
12:45 pm	Closing Remarks <i>Will Ricke, PhD, SBUR President</i>	