

Advances in Basic Urological Research: Cellular Diversity and Crosstalk

NOVEMBER 9-12, 2023 | SAN ANTONIO, TEXAS

Program Committee

Program Committee Chair: **Li Xin, PhD**

Head of Abstract Committee: **Qianben Wang (2025 Chair)**

Fundraising Subcommittee: **David DeGraff, PhD (2024 Chair)**

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Member: **Jennifer Wu, PhD**

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

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

THURSDAY, NOVEMBER 9, 2023		(All Times are in Central Time Zone)
3:00 pm - 5:30 pm	Trainee Affairs Symposium <i>John Lee, MD, PhD, Trainee Affairs Committee Chair</i>	<i>Crystal & Yellow Rose Ballroom</i>
3:00 pm - 3:30 pm	How to Gain Bioinformatic/Technical Training <i>Antonina Mitrofanova, PhD</i>	
3:30 pm - 3:45 pm	Q&A	
3:45 pm - 4:45 pm	Career Panel Discussion (Industry, NIH and Academia) <i>Antonina Mitrofanova, PhD, Ayesha Shafi, PhD, Magdalena Grabowska, PhD, Alan Lombard, PhD, and Susan Lim, PhD</i>	
4:45 pm - 5:15 pm	Grant Writing Tips (F31/F32/K01 - Early Career Grants) <i>Susan Lim, PhD</i>	
5:15 pm - 5:30 pm	Q&A	
SBUR ANNUAL MEETING BEGINS		
6:00 pm - 6:10 pm	Welcome and Introductory Remarks <i>Will Ricke, PhD, SBUR President</i>	
6:10 pm - 7:10 pm	Leland W.K. Chung Lecture "Immune Targeting Strategies for Prostate Cancer" <i>Owen Witte, MD</i>	
7:10 pm - 7:30 pm	EULA and Donald S. Coffey Innovative Research Award Short Talks	
7:10 pm - 7:15 pm	UCHL1 is a Molecular Indicator and a Therapeutic Target for Neuroendocrine Prostate Cancer <i>Shiqin Liu, MD, PhD</i>	
7:15 pm - 7:20 pm	Targeting SOX2 via the IGF1R-AKT-CREB1 Pathway Increases Enzalutamide Sensitivity in Castration-Resistant Prostate Cancer <i>Jordan Vellky, PhD</i>	
7:20 pm - 7:25 pm	Targeting Undruggable Transcription Factor HOXB13 in Metastatic Prostate Cancer by CRISPR/Cas13d-Based Nanoparticle Therapy <i>Zhifen Cui, PhD</i>	
7:30 pm - 8:30 pm	Networking and Welcome Reception	<i>Blue Bonnet, Magnolia Room, & Gunter Terrace</i>

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FRIDAY, NOVEMBER 10, 2023

(All Times are in Central Time Zone)

7:00 am - 9:00 am	SBUR Board Meeting	<i>Mahncke Room</i>
9:00 am - 11:30 am	Plenary Session 1: New Models and Technologies for Urological Research Moderators: <i>Travis Jerde, PhD and Rosalyn Adam, PhD</i>	
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>	
10:15 am - 10:30 am	 Travel Award Presentation #1: Selective Inhibition of PP5 as a Therapeutic Strategy in Renal Cancer <i>Jennifer Heritz, BS</i>	
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>	
11:20 am - 11:30 am	Coffee Break	
11:30 am - 11:50 am	AUA Office of Research Update <i>Christine Riordan, PhD, LCSW-C</i>	
11:50 am - 12:50 pm	Lunch	
12:50 pm - 2:45 pm	Plenary Session 2: Cellular Heterogeneity and Interaction in Urological Tissues Moderators: <i>Donald Vander Griend, PhD and Cindy Miranti, PhD</i>	
12:50 pm - 1:15 pm	A Cellular Atlas of the Human Lower Urinary Tract <i>Douglas Strand, PhD</i>	
1:15 pm - 1:40 pm	Nuclear Receptors Regulate the Urothelial Differentiation Program in Homeostasis, Regeneration and Bladder Cancer <i>Cathy Mendelsohn, PhD</i>	
1:40 pm - 1:55 pm	 Travel Award Presentation #2: Notch Signaling Regulates Uroplakin Expression in Renal Urothelium <i>Felipe Rodriguez-Tirado, PhD</i>	
1:55 pm - 2:20 pm	Stromal Androgen Signaling Acts as Stem Cell Niches in Prostate Development and Morphogenesis <i>Zijie Sun, MD, PhD</i>	
2:20 pm - 2:45 pm	New Insights into Kidney Innervation: From Form to Functional Roles in Development <i>Lori O'Brien, PhD</i>	
2:45 pm - 2:55 pm	Coffee Break	
2:55 pm - 4:50 pm	Plenary Session 3: Genetic and Epigenetic Alterations of Epithelia in Urological Pathologies Moderators: <i>Tanya Stoyanova, PhD and Xiaoqi Liu, PhD</i>	
2:55 pm - 3:20 pm	Modeling AR Reprogramming in Prostate Cancer Pathogenesis <i>Christopher Barbieri, MD, PhD</i>	
3:20 pm - 3:45 pm	Modulation of Androgen Receptor Signaling by Germline and Somatic Mutations in Prostate Cancer <i>Jun Luo, PhD</i>	
3:45 pm - 4:00 pm	 Travel Award Presentation #3: SYNCRIP, A Molecular Brake on APOBEC-Driven Tumor Mutational Burden, Heterogeneity, and Therapy Resistance <i>Xiaoling Li, PhD</i>	
4:00 pm - 4:25 pm	Non-coding RNAs in Prostate Cancer Lineage Plasticity and Drug Resistance <i>Michael Freeman, PhD</i>	
4:25 pm - 4:50 pm	Emerging Biomarkers and Therapeutic Targets for Neuroendocrine Prostate Cancer <i>Himisha Beltran, MD</i>	
4:50 pm - 6:50 pm	Poster Session	<i>Robert Johnson Ballroom</i>

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SATURDAY, NOVEMBER 11, 2023

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9:00 am - 11:10 am	Plenary Session 4: Stromal Microenvironment of Urological Pathologies Moderators: <i>Ping Mu, PhD and Christina Jamieson, PhD</i>
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>
9:50 am - 10:05 am	 Travel Award Presentation #4: A TBX2-Driven Signaling Switch from Androgen Receptor to Glucocorticoid Receptor Confers Enzalutamide Resistance in Prostate Cancer <i>Sayanika Dutta, MSc</i>
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 - 11:10 am	 Travel Award Presentation #5: Characterization of Prostatic Foam Cells in Steroid Hormone Imbalance <i>Samara Silver, BS</i>
11:10 am - 12:10 pm	Dr. Leland W.K. Chung Mentorship Award "You Only Have to Look Out the Window – Reflections on Mentoring and Being Mentored" <i>Michael Freeman, PhD</i> Former Mentee and Mentees: <i>Rosalyn Adam, PhD, Lillian Perez, PhD, and Smrruthi Venugopal, PhD</i>
12:10 pm - 1:10 pm	Lunch
1:10 pm - 3:45 pm	Plenary Session 5: Immunoregulation in Urological Diseases Moderators: <i>Leigh Ellis, PhD and Yan Dong, PhD</i>
1:10 pm - 1:35 pm	Immune Mechanisms Shape the Clonal Landscape During Early Progression of Prostate Cancer <i>Flaminia Talos, MD, PhD</i>
1:35 pm - 2:00 pm	Persistent Inflammation as a Driving Force in BPH Pathogenesis <i>Simon Hayward, PhD</i>
2:00 pm - 2:15 pm	 Travel Award Presentation #6: Targeted Engineering mRNA 3UTR Length Enhances Immunotherapy Response in Prostate Cancer <i>Furong Huang, PhD</i>
2:15 pm - 2:40 pm	The Immune System and the Testosterone Paradox in Prostate Cancer <i>Sushant Kachhap, PhD</i>
2:40 pm - 2:55 pm	 Travel Award Presentation #7: Siglec-7/9 are Immune Checkpoints, with CD59 Acting as a Ligand Specifically for Siglec-9 in Prostate Cancer <i>Ru Wen, PhD</i>
2:55 pm - 3:20 pm	Exploring the Acquired Molecular Mechanisms and Cell Biological Consequences of Chronic IL-1 in Prostate Cancer Cells <i>Nikki Delk, PhD</i>
3:20 pm - 3:45 pm	Immunoregulation of Bladder Cancer by Oncogene Activation <i>William Kim, MD</i>
3:45 pm - 3:55 pm	Coffee Break
3:55 pm - 4:25 pm	Awards Ceremony
4:25 pm - 4:55 pm	SBUR Business Meeting
4:55 pm - 6:55 pm	Poster Session

Robert Johnson Ballroom

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SUNDAY, NOVEMBER 12, 2023

9:00 am - 10:00 am	AUA Lectureship "Alternative Androgen-Independent Pathways for Prostatic Growth" <i>Aria Olumi MD</i>
10:00 am - 12:20 pm	Plenary Session 6: Confounding Factors of Urological Pathologies Moderators: <i>Natasha Kyprianou, PhD and Zhou Wang, PhD</i>
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>
10:50 am - 11:05 am	 Travel Award Presentation #8: Elevated miR-196a-2 and Novel HOXC Variant Gene Expression in Castration-Resistant Prostate Cancer <i>Isaacson Adelani, PhD</i>
11:05 am - 11:15 am	Coffee Break
11:15 am - 11:40 am	How Do We Detect Acute Kidney Injury (AKI) and Acute Bladder Injury (ABI)? Biomarkers and Covid <i>Jonathan Barasch, PhD</i>
11:40 am - 11:55 pm	 Travel Award Presentation #9: Activation of Pparg in the Renal Urothelium Preserves Parenchyma during Urinary Tract Obstruction <i>Mohammad Alhrakeh, PhD</i>
11:55 pm - 12:20 pm	Tumor Microenvironment Mediators of Racial Disparities in Prostate Carcinogenesis <i>Omar Franco, MD, PhD</i>
12:20 pm	Closing Remarks <i>Will Ricke, PhD, SBUR President</i>