



# 2016 SUMMER RESEARCH CONFERENCE

AUA/SBUR 2016 SUMMER RESEARCH CONFERENCE

## Targeting Epigenetics and Genome Regulation to Improve Urologic Health

AUA Headquarters | Linthicum, MD

**JULY 16-17, 2016**

Understanding the influence of epigenetics and genome regulation in malignant and benign urologic diseases and conditions has the potential to rapidly advance therapeutic approaches in urology. This area of research has become increasingly pursued in numerous fields. The purpose of this conference is to convene experts from these fields with investigators both inside and outside of urology in order to advance our understanding of epigenetic factors in the development and progression of urologic diseases. This knowledge will also facilitate new and effective approaches to therapeutically target these factors.

### **PROGRAM COMMITTEE CHAIR**

Aria Olumi, MD

### **PLANNING COMMITTEE**

Nita Ahuja, MD

Peter Clark, MD

David Jarrard, MD

Dolores Lamb, PhD

Gail Prins, PhD

Chad Vezina, PhD



**American  
Urological  
Association**

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 **SBUR**  
SOCIETY FOR BASIC UROLOGIC RESEARCH, INC.

**2016 AUA/SBUR SUMMER RESEARCH CONFERENCE**  
"TARGETING EPIGENETICS AND GENOME REGULATION TO IMPROVE UROLOGIC HEALTH"  
JULY 16–17, 2016 | AUA HEADQUARTERS | LINTHICUM, MD

**SATURDAY, JULY 16, 2016**

8:30–8:35AM	Opening remarks	Carolyn Best, PhD & Aria Olumi, MD
8:35–9:05AM	<u>Keynote Address</u> : Update on the Cancer Genome Atlas and Implications for Urologic Cancers	Massimo Loda, MD
<b>SESSION #1: EPIGENETIC TARGETING: IMPLICATIONS FOR UROLOGY</b>		<u>Moderator</u> : Aria Olumi, MD
9:05–9:25AM	Environmental Epigenetics and Urologic Cancers	Shuk-Mei Ho, PhD
9:25–9:45AM	New Targets for Epigenetic Therapies	Nita Ahuja, MD
9:45–10:05AM	Targeting Orphan Nuclear Receptor RORgamma as a New Therapeutic Strategy in mCRPC	Hongwu Chen, PhD
10:05–10:25AM	Q&A	
10:25–10:45AM	<b>Break (Poster Hall Open)</b>	
<b>SESSION # 2: PROSTATE CANCER</b>		<u>Moderator</u> : Gail Prins, PhD
10:45–11:05AM	Understanding and Exploiting the Prostate Cancer Epigenome	Srinivasan Yegnasubramanian, MD, PhD
11:05–11:25AM	Epigenetics and Prostate Cancer: Susceptibility to Alternation with Aging and Opportunities for Biomarker Detection	David Jarrard, MD
11:25–11:45AM	Epigenetic Underpinnings of Prostate Cancer Disparities in African American Men	Bernard Kwabi-Addo, PhD
11:45AM–12:05PM	Epigenetic Mediated Dedifferentiation in Prostate Cancer Initiation	Leigh Ellis, PhD
12:05–12:25PM	Q&A	
12:25–1:25PM	<b>Lunch</b>	
1:25–1:45PM	Young Investigator Spotlight: An Epigenomic Pathway from Cholesterol to Intracrine Androgen	Sungyong You, PhD
<b>SESSION #3: RENAL AND UROTHELIAL CANCERS</b>		<u>Moderator</u> : W. Kimryn Rathmell, MD, PhD
1:45–2:05PM	TRPM3 and miR-204 Establish a Regulatory Circuit that Controls Oncogenic Autophagy in Clear Cell Renal Cell Carcinoma	Maria F. Czyzyk-Krzeska, MD, PhD

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2:05–2:25PM	Epigenomics for the Stratification of the Aggressive Potential of Small Renal Masses	W. Kimryn Rathmell, MD, PhD
2:25–2:45PM	Reprogramming of RCC and prostate metabolism by VHL and HIF signaling	Othon Iliopoulos, MD
2:45–3:05PM	Epigenetic Risk Prediction for Urothelial Cancer Recurrence	Mohammad Hoque, DDS, PhD
3:05–3:25PM	Q&A	
3:25–3:45PM	<b>Break (Poster Hall Open)</b>	

### **SESSION #4: UROLOGY RESEARCH FUNDING**

Moderator: Carolyn Best, PhD

3:45–4:10PM	Urology Research Funding Mechanisms	Carolyn Best, PhD
4:10–4:35PM	AUA and Urology Care Foundation Research Grant Programs	Krystal Brinson, PhD
4:35–5:00PM	Q&A	
5:00–6:00PM	Poster Viewing and Networking Reception	
5:30–6:00PM	Museum Tours	
6:00–7:00PM	<b>Dinner</b>	

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**SUNDAY, JULY 17, 2016**

8:00–8:05AM	Opening remarks	Carolyn Best, PhD
8:05–8:35AM	<u>Keynote Address</u> : Targeting the Cancer Epigenome for Therapy – A Special Role for Improving the Efficacy of Immune Checkpoint Therapy	Stephen B. Baylin, MD
<b>SESSION #5: EPIGENETIC CONSIDERATIONS FOR BLADDER DYSFUNCTION &amp; PAIN SYNDROMES</b>		<u>Moderator</u> : Chad Vezina, PhD
8:35–8:55AM	Epigenetics in Smooth Muscle Programming	Delphine Gomez, PhD
8:55–9:15AM	Single-step BRAFV600E induction of right sided colon cancer phenotype by autonomous Wnt-activation and stem-cell expansion	Hariharan Easwaran, PhD, MSc
9:15–9:35AM	Young Investigator Spotlight: Function of the PRC2/Ezh2-dependent Epigenetic Program in Bladder Regeneration and Repair	Zarine Balsara, MD, PhD
9:35–9:55AM	Q&A	
9:55–10:10AM	<b>Break (Poster Hall Open)</b>	
<b>SESSION #6: MALE REPRODUCTION AND INFERTILITY</b>		<u>Moderator</u> : Dolores Lamb, PhD
10:10–10:30AM	Epigenetic Alterations Underlying Non-obstructive Azoospermia	Dolores Lamb, PhD
10:30–10:50AM	Using Sperm Epigenetic Data in the Clinic: Promises and Perils	Douglas Carrell, PhD
10:50–11:10AM	Sperm RNAs as Biomarkers of Fecundity and Environmental Exposures	Stephen Krawetz PhD
11:10–11:30AM	Sperm DNA-related Epigenetic Biomarkers of Exposure and Effect	Edward Dere, PhD
11:30–11:50AM	Q&A	
<b>SESSION #7: PROSTATE DEVELOPMENT, BPH AND URINARY FUNCTION</b>		<u>Moderator</u> : Aria Olumi, MD
11:50AM–12:10PM	Epigenetics of Age and Obesity: Implications for Therapy of BPH	Aria Olumi, MD
12:10–12:30PM	DNA Methylation and Prostate and Lower Urinary Tract Development	Chad Vezina, PhD

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12:30-12:50PM

Q&A

12:50-1:00PM

Closing Remarks and Adjourn  
**(Box Lunches Available)**

Carolyn Best, PhD &  
Aria Olumi, MD