

The Environment-Gene Interface in Urologic Health and Disease

THURSDAY, NOVEMBER 12, 2015

Noon - 8:00 p.m.

Registration
Crystal Ballroom Atrium

2:30 p.m. - 5:00 p.m.

Board of Directors Meeting

5:45 - 6:00 p.m.

Welcome & Introductory Remarks
Gail Prins, PhD
SBUR President
University of Illinois at Chicago
Chicago, IL

6:00 - 7:00 p.m.

Leland W.K. Chung Lecture
Hypoxia, Metabolism and Tumor Progression
M. Celeste Simon, PhD
Abramson Family Cancer Research Institute
University of Pennsylvania
Philadelphia, PA

7:00 - 7:15 p.m.

Travel Award Winner
Sca-1 Identifies a Distinct Androgen-independent Murine Prostatic Luminal Cell Lineage With Bipotent Potential
Oh-Joon Kwon, PhD
Baylor College of Medicine
Houston, TX

7:15 - 9:00 p.m.

Networking Reception
Crystal Ballroom 3 & 4
Light hors d'oeuvres and cash bar

FRIDAY, NOVEMBER 13, 2015

7:00 - 8:00 a.m.

Continental Breakfast
Windows on the Green

8:00 a.m. – 12:10 p.m.

Plenary Session I:
Inflammation, Infection and Immunity in Urology

Moderators:

Andrea Morrione, PhD
Thomas Jefferson University
Philadelphia, PA

Susan Kasper, PhD
University of Cincinnati
Cincinnati, OH

8:05 - 8:30 a.m.

PDL1/PD1 Trials in Bladder Cancer

Joaquim Bellmunt, MD
Dana-Farber Cancer Institute
Boston, MA

8:30 - 8:55 a.m.

Inflammation in the Lower Urinary Tract

Dale Bjorling, DVM
University of Wisconsin-Madison
Madison, WI

8:55 - 9:20 a.m.

LL37 in Bladder Inflammation and Pain

Siam Oottamasathien, MD
University of Utah
Salt Lake City, UT

9:20 - 9:45 a.m.

Exploiting Anti-Tumor Immunity for Renal Cell Carcinoma

Thomas Griffith, PhD
University of Minnesota
Minneapolis, MN

9:45 - 10:10 a.m.

Pelvic Inflammation and Bladder Dysfunction

Anna Malykhina, PhD
University of Colorado - Denver
Aurora, CO

10:10 - 10:40 a.m.

Break

10:40 - 11:05 a.m.

Regulations of MicroRNAs and Inflammatory Genes in Prostatic Stroma and Epithelium by Vitamin D

Larisa Nonn, PhD
University of Illinois-Chicago
Chicago, IL

11:05 - 11:30 a.m.

Uropathogenic E. Coli Biofilms and Metabolite Sensors During Infection

Maria Hadjifrangiskou, PhD
Vanderbilt University School of Medicine
Nashville, TN

11:30 - 11:55 a.m.

Prostatic Inflammatory Hyperplasia

Travis Jerde, PhD
Indiana University
Indianapolis, IN

11:55 a.m. – 12:10 p.m.	<p>Travel Award Winner WNT5A Induces Castration Resistant Prostate Cancer via Macrophages Seokjoo Kwon, PhD <i>Rutgers Cancer Institute of New Jersey</i> <i>New Brunswick, NY</i></p>
12:10 - 1:30 p.m.	<p>Lunch <i>Windows on the Green</i></p>
1:30 - 1:45 p.m.	<p>AUA Office of Research Update Carolyn Best, PhD <i>AUA Director of Research</i> <i>Linthicum, MD</i></p>
1:45 – 4:30 p.m.	<p>Plenary Session II: Metabolism, Metabolic Syndrome and Urologic Disease</p> <p>Moderators:</p> <p>Douglas Strand, PhD <i>University of Texas-Southwestern</i> <i>Dallas, TX</i></p> <p>Rosalyn Adam, PhD <i>Boston Children’s Hospital</i> <i>Boston, MA</i></p>
1:45 - 2:10 p.m.	<p>Diabetes Mellitus and Lower Urinary Tract Dysfunction Matthew Fraser, PhD <i>Duke University</i> <i>Durham, NC</i></p>
2:10 - 2:35 p.m.	<p>Molecular Mechanisms Driving Obese Adipose Stimulation of Prostate Cancer Cells Jennifer Doll, PhD <i>University of Wisconsin-Milwaukee</i> <i>Milwaukee, WI</i></p>
2:35 - 3:00 p.m.	<p>Cell-Specific Responses to Comorbidities in BPH Douglas Strand, PhD <i>University of Texas-Southwestern</i> <i>Dallas, TX</i></p>
3:00 - 3:25 p.m.	<p>Break</p>
3:25 - 3:50 p.m.	<p>The Influence of Intermittent Hypoxia and Diabetes On Lower Urinary Tract Function Chad Vezina, PhD <i>University of Wisconsin-Madison</i> <i>Madison, WI</i></p>

9:20 - 9:45 a.m.	Phthalate Exposure and Testicular Dysgenesis Vassilli Papadopoulos, DPharm, PhD <i>McGill University</i> <i>Montreal, QC, Canada</i>
9:50 - 10:00 a.m.	Awards Presentation
10:00 a.m. - Noon	Poster Session II Poster # P57 – P111 <i>Crystal Ballroom 3 & 4</i>
Noon - 1:30 p.m.	Lunch on Your Own
1:30 - 2:10 p.m.	AUA Lecture: A Role for Toll Like Receptor Sensitization in Interstitial Cystitis/Painful Bladder Syndrome Michael O'Donnell, MD <i>University of Iowa</i> <i>Iowa City, IA</i>
2:15 - 4:35 p.m.	Plenary Session IV: Sex, Race and Ethnicity: Impact on Urologic Disease Moderators: ShuYuan Yeh, PhD <i>University of Rochester</i> <i>Rochester, NY</i> Leigh Ellis, PhD <i>Roswell Park Cancer Institute</i> <i>Buffalo, NY</i>
2:15 - 2:40 p.m.	Molecular Factors That May Contribute to Racial Disparities in PCa Isaac Powell, MD, PhD <i>Wayne State University/Karmanos Cancer Institute</i> <i>Detroit, MI</i>
2:40 - 3:05 p.m.	Sickle Cell Disease-Associated Priapism and Lower Urinary Tract Dysfunction Trinity Bivalacqua, MD, PhD <i>Johns Hopkins University</i> <i>Baltimore, MD</i>
3:05 – 3:20 p.m.	Break
3:20 - 3:45 p.m.	FOXA1 and Gender Differences in Bladder Cancer David DeGraff, PhD Hershey Medical College <i>Penn State University</i> <i>Hershey, PA</i>

3:45 – 4:10 p.m.

Sexual Dimorphism of the Internal and External Genitalia

Linda Baker, MD
University of Texas-Southwestern
Dallas, TX

4:10 – 4:35 p.m.

Stem Cells and Pelvic Floor Dysfunction

Margot S. Damaser, PhD
The Cleveland Clinic
Cleveland, OH

4:35 - 4:50 p.m.

Travel Award Winner

Arsenic Dysregulates Human Prostate Stem/progenitor Cell Homeostasis, Perturbs Autophagy and Drives Transformation Through Accumulation Of Sqstm1/p62

Lishi Xie, PhD
University of Illinois of Chicago
Chicago, IL

5:00 - 6:45 p.m.

**Discussion Forum:
Emerging Model Systems for Urologic Disease Research**

Moderators:

Peter Clark, MD
Vanderbilt University
Nashville, TN

Chad Vezina, PhD
University of Wisconsin-Madison
Madison, WI

Presenters:

Christina Jamieson, PhD
University of California
San Diego, San Diego, CA
Model System: Patient-derived Xenograft of Bone Metastatic Prostate Cancer

Wenbin Song, MD
University of Rochester
Rochester, NY
Model System: Renal Cell Carcinoma-neutrophil Orthotopic Xenograft

Zongwei Wang, MD
Massachusetts General Hospital and Harvard Medical School,
Boston, MA
Model System: Bladder Dysfunction in a Mouse Model of Type 2 Diabetes

Cindy Miranti, PhD
Van Andel Research Institute
Grand Rapids, MI
Model System: In Vitro Prostate Differentiation Model

Nikolai A. Sopko, MD, PhD
Johns Hopkins Medical Institutions
Baltimore, MD
Model System: 3D Major Pelvic Ganglion Neurite Culture

Petra Popovics, PhD
University of Miami and South Florida VA Medical Center
Miami, FL
Model system: 3D Prostate Epithelial Cell Culture

Tanya Stoyanova, PhD
University of California Los Angeles
Los Angeles, CA
Model System: Prostate Cancer-tissue Recombination Model

X. Sean Li, PhD
Boston Children's Hospital and Harvard Medical School, Boston,
MA
Model System: High-Resolution Episcopic Microscopy and
Mouse Urogenital Tract Development

SUNDAY, NOVEMBER 15, 2015

7:00 - 8:00 a.m.

Continental Breakfast
Windows on the Green

8:00 a.m. – 12:15 p.m.

Plenary Session V:
Nutritional Aspects of Urologic Disease

Moderators:

Marc Cox, PhD
University of Texas at El Paso
El Paso, TX

Daniel Frigo, PhD
University of Houston
Houston, TX

8:00 - 8:30 a.m.

**Overview of the Session: Phytochemicals and Hormonally-
Based Supplements Modulate Androgenic Pathways in
Human Prostate Stromal and Epithelial Cells**

Julia T. Arnold, PhD
Translational Research Program, National Cancer Institute
Bethesda, MD

- 8:30 - 8:55 a.m.** **Retinoids, Bladder Development and Cancer**
Cathy Mendelsohn, PhD
Columbia University
New York, NY
- 8:55 - 9:20 a.m.** **Androgen Receptor and Vav3 Interactions Reveal Novel
Therapeutic Approaches for CRPC**
Kerry Burnstein, PhD
University of Miami
Miami, FL
- 9:20 - 9:45 a.m.** **Role of Redox Signaling in Prostate Cancer Progression and
Castrate Resistance**
Hari Koul, PhD
LSU School of Medicine-Shreveport
Shreveport, LA
- 9:45 - 10:10 a.m.** **Folate Metabolism and PCa**
Dominic Smiraglia, PhD
Roswell Park Cancer Institute
Buffalo, NY
- 10:10 - 10:25 a.m.** **Break**
- 10:25 - 10:40 a.m.** **NIDDK Strategic Plan**
Tracy L. Rankin, PhD
NIDDK/NIH
Bethesda, MD
- 10:40 - 11:05 a.m.** **Dietary Supplement and Combination Therapy in Kidney and
Prostate Cancer**
Vinata Lokeshwar, PhD
Georgia Regents University
Augusta, GA
- 11:05 - 11:30 a.m.** **Cholesterol and Prostate Disease**
Michael Freeman, PhD
Cedars-Sinai Medical Center
Los Angeles, CA
- 11:30 - 11:55 am** **Vitamin D and PCa**
Nancy Weigel, PhD
Baylor College of Medicine
Houston, TX
- 11:55 a.m. – 12:10 p.m.** **Travel Award Winner**
**Androgen Receptor Splice Variants in Prostate Cancer
Associated Fibroblasts**
Bethany Smith, PhD
Cedars-Sinai Medical Center
Los Angeles, CA

12:10 - 12:15 p.m.

Farewell

Gail Prins, PhD
SBUR President