

THE COLUMBIA O'BRIEN UROLOGY CENTER SYMPOSIUM

* *The genetic origins
and complications of
urinary tract abnormalities*

Thursday, November 12, 2015
From 8:00am to 6:00pm
Myrna Daniels Auditorium, CUMC

Co-sponsored by
Columbia O'Brien Urology
and Weill Cornell Center for
Smooth Muscle Analyses

An NIH collaborative Initiative
hosted by Weill Cornell Medical
College & Columbia University
Medical Center (Urology &
Nephrology)

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Schedule

Thursday, November 12, 2015

- 8:00am Registration & Breakfast
- 8:20am Welcome/Opening Remarks

Morphogenesis of the Lower Urinary Tract *Session Chair: Cathy Mendelsohn PhD*

- 8:30am Development of External Genitalia, *Marty Cohn PhD, University of Florida*
- 9:00am A Role for DNA Methylation in Prostate Development and Urinary Function, *Chad Vezina PhD, University of Wisconsin*
- 9:30am Genetic Dissection of Kidney and Urinary Tract Developmental Diseases *Simone Sanna-Cherchi MD, Columbia University Medical Center*
- 10:00am **Break**
- 10:15am Signaling Pathways in Ureter Development, *Andreas Kispert PhD, Hanover*
- 10:45am Basement Membrane as a Barrier in the Lower Urinary Tract *Jeffrey Miner PhD, Washington University*
- 11:15am Role of the Cilia in the Pathogenesis of Congenital Heart Disease *Cecilia Wen Ya Lo PhD, University of Pittsburg*
- 11:45am The Urothelium in Lower Urinary Tract Health and Disease *Henry Sun PhD, New York University*
- 12:15pm **Lunch and Poster Session**

Physiology of Lower Urinary Tract *Session Chair: Doris Herzlinger PhD*

- 1:30pm Real-time Imaging of Urinary Tract Motility *Romulo Hurtado PhD, Weill Cornell Medicine*
- 2:00pm Non-Voiding Contractions Encode Essential Information on Urinary Bladder Fullness, *Mark Nelson PhD, University of Vermont*
- 2:30pm Hedgehog Signaling Controls Development of Specialized Kidney Cells in Health & Disease, *Norman Rosenblum MD, Hospital for Sick Children*
- 3:00pm **Break**

Animal Models *Session Chair: Ojas Shah*

- 3:15pm The Role of Heavy Metals in Urinary Stone Disease *Marshall Stoller MD, University of California San Francisco*
- 3:45pm Kidney Regeneration in Zebrafish *Iain Drummond PhD, Massachusetts General Hospital*

Response of LUT to Benign Disease *Session Chair: Jon Barasch MD, PhD*

- 4:15pm Surgical and Transgenic Strategies for Studying Bladder Wall Hypertrophy *Stephen Zderic MD, The Children's Hospital of Philadelphia*
- 4:45pm Recurrent Urinary Tract Infections: Pathogenesis, Bladder Remodeling and Clinical Prevention *Scott Hultgren PhD, Washington University School of Medicine*
- 5:15pm Illuminating Kidney Disease *Neal Paragas PhD, University of Washington*
- 5:45pm Closing remarks
- 6:00pm Adjourn

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