



# 12<sup>th</sup> Annual Symposium On Polycystic Kidney Disease

May 23<sup>rd</sup>, 2019

The Joseph B. Martin Conference Center at Harvard Medical School (Bray Room)  
77 Avenue Louis Pasteur, Boston, MA 02115

7:30 AM – 8:00 AM (*Breakfast and Networking*)

8:00 AM - 8:15 AM

## WELCOME AND OPENING REMARKS

Jing Zhou, MD, PhD, Brigham and Women's Hospital and Harvard Medical School  
Director, Harvard Center for Polycystic Kidney Disease Research

## SESSION 1: UNDERSTANDING PKD AND CILIA

Chairs: Peter G. Czarnecki, MD, Brigham and Women's Hospital and Harvard Medical School  
Gregory Pazour, PhD, University of Massachusetts

8:15 AM – 8:40 AM

### **A global analysis of IFTA function reveals specialization for transport of membrane-associated proteins into cilia**

Tyler Picariello, PhD, University of Massachusetts

8:45 AM – 9:10 AM

### **The cryo-EM structure of a doublet microtubule**

Alan Brown, PhD, Harvard Medical School

9:15 AM – 9:40 AM

### **Extra-renal cilia**

Xuanmao Chen, Ph.D. University of New Hampshire

9:45 AM – 10:10 AM

### **Ciliary signaling and ciliogenesis**

David Breslow, PhD, Yale University

10:10 AM – 10:40 AM

(*Coffee Break*)

## SESSION 2: CILIA SIGNALING

Chairs: Iain Drummond, PhD, Massachusetts General Hospital and Harvard Medical School  
Ajay Amrendra, PhD, Brigham and Women's Hospital and Harvard Medical School

10:40 AM – 11:05 AM

### **Illuminating the private life of cyclic AMP in the primary cilium**

Aldebaran Hofer, PhD, Brigham and Women's Hospital and Harvard Medical School

11:10 AM – 11:35 AM

### **Replicating kidney structure and functions with guided morphogenetic systems**

Balaji Subramanian, PhD, Brigham and Women's Hospital and Beth-Israel Deaconess Medical Center, Harvard Medical School

11:40 AM – 12:05 AM

**ADAMTS9 mutations cause a nephronophthisis-related ciliopathy**

*Friedhelm Hildebrandt, MD, Boston Children's Hospital and Harvard Medical School*

12:05 AM – 1:10 PM (Lunch Break)

SESSION 3: DISEASE MODELING

Chairs: *Jordan Kreidberg, MD, PhD, Boston Children's Hospital and Harvard Medical School*

*Jing Zhou, MD, PhD, Brigham and Women's Hospital and Harvard Medical School*

1:10 PM – 1:35 PM

**Where does polycystin function?**

*Jing Zhou, MD, PhD, Brigham and Women's Hospital and Harvard Medical School*

1:40 PM – 2:05 PM

**Enhanced protein folding via XBP1 activation ameliorates ADPKD due to PC1 misfolding**

*Sorin Fedeles, PhD, MBA, Yale Medical School*

2:05 PM – 2:30 PM

**Optogenetic control of ciliary calcium signaling in left-right axis development**

*Yuan, Shialou, Ph.D, Massachusetts General hospital and Harvard Medical School*

2:30 PM – 2:55 PM

**Loss of cilia does not hinder cystic disease progression in a mouse model of ARPKD**

*Anna Rachel Gallagher, MD, PhD, Yale Medical School*

3:00 PM – 3:30 PM (Break)

SESSION 4: DISEASE INTERVENTIONS

Chairs: *Joseph Bonventre, MD, PhD, Brigham and Women's Hospital and Harvard Medical School*

*Friedhelm Hildebrandt, MD, Boston Children's Hospital and Harvard Medical School*

3:30 PM – 3:55 PM

**STAGED-PKD: Study to assess GCS inhibition efficacy in ADPKD**

*Ronald Perrone, MD, Tufts Medical Center*

3:55 PM – 4:20 PM

**A new kid on the block - targeting inflammation for PKD treatment**

*Theodore I. Steinman, MD, Beth-Israel Deaconess Medical Center and Harvard Medical School*

*Keynote Lecture:*

4:20 PM – 5:00 PM

**Comparison of ADPKD and ARPKD**

*Peter Harris, PhD, Mayo Clinic*

**CLOSING REMARKS**

*Jing Zhou, MD, PhD, Director, Harvard Center for Polycystic Kidney Disease Research*

6:45 PM – 9:00 PM

Faculty Dinner (R.S.V.P. required)