



PROGRAM

ISN Forefronts Symposium

Polycystic Kidney Disease

April 10 – April 13, 2008

Montreal, Canada

Thursday, April 10, 2008

- 17:00 – 17:15** **Welcome and Opening Remarks in Champêtre Room ABCD**
Michael Caplan and Stefan Somlo, *Yale University, USA*
Dan Larson, President and CEO, *PKD Foundation*
- 17:15 – 18:00** **Wnt Signaling, Planar Cell Polarity in Champêtre Room ABCD**
Randall Moon, *University of Washington School of Medicine, USA*
- 20:00 – 21:30** **Welcome reception in Cherry River Room**

Friday, April 11, 2008

- 08:30 – 10:00** **Session 1: PKD & Related Diseases**
Chair: Peter Igarashi, USA
- ADPKD**
Stefan Somlo, *Yale University, USA*
- Nephronophthisis and Ciliary Signaling**
Friedhelm Hildebrandt, *University of Michigan, USA*
- Update on ARPKD**
Peter Harris, *Mayo Clinic, USA*
- 10:00 – 10:30** **Coffee & Networking Break in Cordial Room (2nd floor)**
- 10:30 – 12:30** **Session 2: Cilia Signaling**
(The Cilium - Basal Body – Centrosome complex)
Chair: Joel Rosenbaum, USA
- Ciliary Assembly and Cilia-Dependent Cystic Diseases**
Joel Rosenbaum, *Yale University, USA*

The Cilium as Signaling Platform

Kathryn V Anderson, *Sloan-Kettering Institute, USA*

NEDD9, Aurora-A, and PKD

Erica A Golemis, *Fox Chase Cancer Center, USA*

Bardet-Biedl & Nephronophthisis Proteins in the Cilium

Peter Jackson, *Genentech, USA*

12:30 – 14:00

Lunch in the Dinning Room Les Jardins (1st Floor)

14:00 – 14:30

Poster Session & Discussion in Cordial Room

14:30 – 16:00

Session 3: Cystic Diseases & Signaling Pathways

Chair: Gregory Germino, USA

Polycystins, ERKs and mTOR

Alessandra Boletta, *Dulbecco Telethon Institute, Italy*

Wnt/Fz-Planar Cell Polarity (PCP) Signaling: Genomic and Genetic Dissection of Signaling Specificity and Regulation

Marek Mlodzik, *Mount Sinai School of Medicine, USA*

Loss of Cilia and Cystic Disease

Peter Igarashi, *University of Texas Southwestern Medical Center, USA*

STAT Signaling and PKD

Thomas Weimbs, *University of California Santa Barbara, USA*

16:00 – 16:30

Coffee & Networking Break in Cordial Room (2nd Floor)

16:30 – 18:30

Session 4: Trafficking, Cleavage, Partners

Chair: Alessandra Boletta, Italy

Intracellular Trafficking of Polycystin-2 and Polycystin-2 Partners

Ralph Witzgall, *University of Regensburg, Germany*

Polycystin-1 C Terminal Tail Cleavage and Signaling

Michael Caplan, *Yale University, USA*

Regulated Intramembranous Proteolysis

Raphael Kopan, *Washington University in St. Louis, USA*

Retrograde IFT and Shh Signaling

David Beier, *Harvard Medical School, USA*

20:00 – 21:30

Dinner in the Dining Room Les Jardins (1st Floor)

Saturday, April, 12, 2008

09:00 – 10:30

Session 5: Polycystins & Calcium Signaling

Chair: Sven-Eric Jordt, USA

Polycystins and Calcium

Jing Zhou, *Harvard Medical School, USA*

The Interaction of Polycystin 2, Ryanodine Receptors and Calcium Modulate Changes in Intracellular Calcium

Barbara Ehrlich, *Yale University, USA*

Activation Mechanisms of PC2

Leonidas Tsiokas, *University of Oklahoma Health Sciences Center, USA*

10:30 – 11:00

Coffee & Networking Break in Cordial Room

11:00 – 12:30

Session 6: TRP Channels, Sensory Functions and Cystic Disease

Chair: Barbara Ehrlich, USA

TRP Channels and Sensation

Sven-Eric Jordt, *Yale University, USA*

TRP Channels: Mediators of Sensory Signaling

Craig Montell, *Johns Hopkins School of Medicine, USA*

Polycystins and Taste

Hiroaki Matsunami, *Duke University Medical Center, USA*

Gating of the TRPP2 Channel: Evolutionary and Structural Insights on the Role of the Extracellular Region of Polycystin-1

Richard Sandford, *University of Cambridge, UK*

12:30 – 14:00

Lunch in the Dinning Room Les Jardins

14:00 – 14:30

Poster Session & Discussion in Cordial Room

14:30 – 16:30

Session 7: What We Learn from Animal Models

Chair: Vicente Torres, USA

Mice

Gregory Germino, *Johns Hopkins University, USA*

C. Elegans

Maureen Barr, *Rutgers University, USA*

Drosophila

Terry Watnick, *Johns Hopkins University, USA*

Exploring Cystic Disease Mechanisms in Zebrafish

Ian Drummond, *Massachusetts General Hospital, Harvard Medical School, USA*

19:00 – 21:30

Dinner in the Dinning Room Les Jardins

Sunday, April, 13, 2008

09:00 – 10:30

Session 8: What We can Learn from Other Diseases

Chair: Friedhelm Hildebrandt, USA

BBS

Nicholas Katsanis, *Johns Hopkins University, USA*

Meckel-Gruber Syndrome: an Overview of the Molecular Genetics and Cell Biology

Colin A Johnson, *Leeds Institute of Molecular Medicine, UK*

Mechanisms of Renal Cyst Pathogenesis in Tuberous Sclerosis Complex

Elizabeth Henske, *Fox Chase Cancer Center, USA*

The von Hippel-Lindau Tumor Suppressor Protein Controls Ciliogenesis by Orienting Microtubule Growth

Thomas Benzing, *University of Cologne, Germany*

10:30 – 11:00

Coffee & Networking Break in Cordial Room

11:00 – 12:30

Session 9: Therapy

Chair: Peter Harris, USA

Overview/Design/Clinical Trails

Lisa Guay-Woodford, *University of Alabama at Birmingham, USA*

Triptolide and ADPKD

Craig Crews, *Yale University, USA*

V₂ Receptor Blockers

Vicente Torres, *Mayo Clinic, USA*

CDK Inhibition for the Treatment of PKD

Oxana Ibraghimov-Beskrovnya, *Genzyme Corporation, USA*

12:30 – 12:45

Concluding Remarks

12:45 – 14:00

Lunch in the Dinning Room Les Jardins