Thursday, March 8, 2007

17:00 – 17:15 Welcome and Opening Remarks

17:15 – 18:00 Keynote speech
Richard Lifton, Yale University School of Medicine, USA

Friday, March 9, 2007

09:00 – 10:45 Session 1: Morphogenesis
Chair: Cathy Mendelsohn, USA

Using zebrafish to explore the genetics of human kidney disease
Rebecca Burdine, Princeton University, USA

Developmental defects that underlie reflux and urogenital tract obstruction: Revisiting the Bud Theory
Cathy Mendelsohn, Columbia University, USA

From precursor to product: organogenesis of the mammalian kidney
Andy McMahon, Harvard University, USA

GDNF/Ret signaling and ureteric bud branching morphogenesis
Frank Costantini, Columbia University Medical Center, USA

10:45 – 11:15 Coffee & Networking Break

11:15 – 12:45 Session 2: Ion transport
Chair: Steven Hebert, USA

Tissue specificity of proton pumps and renal disease
Fiona Karet, Cambridge Institute for Medical Research, UK

Insights into the Pathophysiology of Antenatal Type II Bartter’s Syndrome from the ROMK Knockout Mouse
Steven C Hebert, Yale University School of Medicine, USA

Regulation renal salt and water absorption by the collecting duct transcription factor, PPARgamma
Matthew D Breyer, Eli Lilly and Company, USA
12:45 – 14:00  
**Lunch**

14:00 – 14:30  
**Poster Session & Discussion**

14:30 – 15:30  
**Session 3: Amino acid transport**  
*Chair: Robert Kleta, UK*

Clinical and up-to-date molecular findings in aminoacidurias  
*Robert Kleta, University College London, UK*

Aminoaciduria nephrogenetics  
*John Rasko, Centenary Institute of Cancer Medicine and Cell Biology, University of Sydney, Australia*

15:30 – 16:00  
**Coffee & Networking Break**

16:00 – 17:00  
**Session 4: Renin-angiotensin system**  
*Chair: Marie-Claire Gubler, France*

Autosomal recessive renal tubular dysgenesis and the renin-angiotensin system  
*Marie-Claire Gubler, Institut National de la Santé et de la Recherche Médicale, France*

Angiotensin II and Epidermal Growth Factor receptor cross-talk in chronic kidney disease  
*Fabiola Terzi, Institut National de la Santé et de la Recherche Médicale, France*

17:00 – 18:00  
**Session 5: Steroid Resistant Nephrotic Syndrome**  
*Chair: Corinne Antignac, France*

Genetics of steroid-resistant nephrotic syndrome  
*Corinne Antignac, Institut National de la Santé et de la Recherche Médicale, France*

The slit diaphragm protein complex: a protein-lipid supercomplex involved in mechanosensation?  
*Thomas Benzing, University of Cologne, Germany*

**Saturday, March 10, 2007**

09:00 – 10:45  
**Session 6: Cilia / Polycystic Kidney Disease**  
*Chair: Heymut Omran, Germany*

HNF1beta in nephrogenesis and tubular planar cell polarisation  
*Marco Pontoglio, Pasteur Institute, France*

Ciliary signaling and polycystic kidney disease  
*Jing Zhou, Brigham & Women's Hospital, Harvard Medical School, USA*

The role of polycystins in renal tubulogenesis  
*Gregory Germino, Johns Hopkins University School of Medicine, USA*

Intraflagellar Transport (IFT) and Flagellar Assembly: New Insights into the Role of Cilia in Polycystic Kidney Disease (PKD)  
*Joel Rosenbaum, Yale University, USA*

10:45 – 11:15  
**Coffee & Networking Break**
11:15 – 12:45  **Session 6: Cilia / Polycystic Kidney Disease** (continued)

Mutations in OFD1 and RPGR responsible for syndromic forms of primary ciliary dyskinesia indicate functional properties of cystoproteins in motile cilia
*Heymut Omran, University Hospital Freiburg, Germany*

Calcium and cAMP in PKD Cells and Embryonic Kidneys
*James P. Calvet, University of Kansas Medical Center, USA*

Treatments for PKD targeting cAMP
*Vicente Torres, Mayo Clinic College of Medicine, USA*

12:45 – 14:00  **Lunch**

14:00 – 14:30  **Poster Session & Discussion**

14:30 – 16:00  **Session 7: Nephronophthisis**  
Chair: Friedhelm Hildebrandt, USA

Cilia and centrosomes: a unifying pathogenic concept for cystic kidney disease?  
*Friedhelm Hildebrandt, University of Michigan, USA*

Signaling and subcellular localization of nephrocystins  
*Gerd Walz, University Hospital Freiburg, Germany*

Emerging roles for cilia in the regulation of Wnt signaling  
*Nicholas Katsanis, Johns Hopkins University, USA*

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**Sunday, March 11, 2007**

09:00 – 10:30  **Session 8: Fibrosis / EMT**  
Chair: Eric Neilson, USA

Secreted Mediators of BMP and TGF-beta Signaling in Renal Disease  
*Gregory R Dressler, University of Michigan, USA*

Molecular mechanisms of epithelial-mesenchymal transition (EMT) in the kidney  
*Eric Neilson, Vanderbilt University School of Medicine, USA*

Notch2, but not Notch1, is essential for proximal fate acquisition in the mammalian nephron  
*Raphael Kopan, Washington University, USA*

10:30 – 11:00  **Coffee & Networking Break**

11:00 – 12:30  **Session 9: Familial focal glomerulosclerosis**  
Chair: Michelle Winn, USA

The role of alpha-actinin-4 in glomerular disease and function  
*Martin Pollak, Brigham & Women's Hospital, Harvard Medical School, USA*

TRPC6 as a cause for Familial Focal and Segmental Glomerulosclerosis  
*Michelle Winn, Duke University Medical Center, USA*

The cellular functions of polycystins  
*Stefan Somlo, Yale University, USA*

12:30 – 12:45  **Concluding Remarks**