7:30-8:30am  Registration

8:30am  Welcome
Terry Watnick, M.D., University of Maryland School of Medicine
Opening Remarks
E. Albert Reece, M.D., Ph.D., M.B.A., Dean, University of Maryland School of Medicine

8:45-9:10am  “Polycystic Kidney Disease in Perspective”
Alessandra Boletta, Ph.D., San Raffaele Scientific Institute, Milan, Italy

9:10-9:50am  “FAT and Mitochondria”
Helen McNeill, Ph.D., Samuel Lunenfeld Research Institute

9:50-10:10am  Break

10:10-10:40am  “Systems Biology of Polycystic Kidney Disease Suggests it is a Metabolic Disease”
Luis Menezes, M.D., Ph.D., NIDDK

10:40-11:20am  “Novel Signaling Pathways and Therapeutic Targets in Polycystic Kidney Disease”
Michael Caplan, M.D., Ph.D., Yale University School of Medicine

Jing Cai, Ph.D., Johns Hopkins University School of Medicine

11:50am-12:10pm  Panel Discussion: Menezes, Boletta, McNeill, Cai, Caplan
(Moderator, Gregory Germino, M.D., NIDDK)

12:10-1:10pm  Break for Lunch

1:10-1:50pm  “Systems Genetics Reveal Central Role for Cilia in Congenital Heart Disease and Other Structural Birth Defects”
Cecilia Lo, Ph.D., University of Pittsburgh School of Medicine

1:50-2:20pm  “Genomics of Diuretic Resistance”
Paul Welling, M.D., University of Maryland School of Medicine

2:20-2:50pm  “Total Kidney Volume as a Biomarker for Disease Progression in ADPKD: Results from HALT PKD and the PKD Outcomes Consortium (PKDOC)”
Ron Perrone, M.D., Tufts School of Medicine

2:50-3:10pm  Break

3:10-3:40pm  “Insights from Human Enteroids on Na+ (NHE3) and Cl- Transport Mechanisms in Enterocytes: Normal Physiology and Host-Pathogen Interactions”
Mark Donowitz, M.D., Johns Hopkins University School of Medicine

3:40-4:00pm  “Gα12 is Required for Renal Cystogenesis Induced by Pkd1 Inactivation”
Tianqing Kong, Ph.D., Brigham and Women’s Hospital - Pilot Project

4:00-4:20pm  “Vasopressin Receptor Type 2 Expression and Trafficking in Polycystin 1 Mutant Cell Line”
Richard Bouley, Ph.D., Massachusetts General Hospital - Pilot Project

4:20-4:30pm  Adjourn