

POLYCYSTIC KIDNEY DISEASE: FROM MOLECULAR MECHANISM TO THERAPY

AUGUST 3-8, 2014

LUCCA, ITALY

CO-ORGANIZERS:

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FASEB

Federation of American Societies
for Experimental Biology

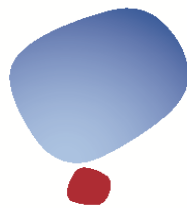
Science Research Conferences

FASEB GRATEFULLY ACKNOWLEDGES THE
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PKD FOUNDATION
Polycystic Kidney Disease



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Polycystic Kidney Disease:
From Molecular Mechanism to Therapy

August 3 - 8, 2014

Lucca, ITALY

Co-Organizers:

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Leiden University Medical Center
Leiden, The Netherlands

Jim Calvet

University of Kansas Medical Center
Kansas City, KS

Vicente Torres

Mayo Clinic
Rochester, MN

**Sunday,
August 3, 2014**

4:00PM – 9:00PM

Conference Registration

6:00PM – 7:00PM

FASEB Opening Reception

7:00PM – 8:30PM

Dinner

8:45PM – 10:00PM

Keynote Speaker

David Clapham, Cardiology, Boston Children's Hospital, Boston
"Ion channels in primary cilia"

**Monday,
August 4, 2014**

7:30AM – 9:00AM

Breakfast

Session 1:

9:00AM – 12:15PM

Signaling Networks

Session Chairs: York Pei, General Hospital, Ontario and James Calvet, University of Kansas Medical Center, Kansas City

9:00AM – 9:15AM

Welcome from FASEB

9:15AM – 9:45AM

Michael Caplan, Yale University, New Haven
"The polycystins: novel signaling and trafficking pathways"

9:45AM – 10:15AM

Thomas Weimbs, University of California, Santa Barbara
"Rapamycin analogues to target mTOR signaling and renal cystic disease"

10:15AM – 10:30AM

Barbara Ehrlich, Yale School of Medicine, New Haven
"The calcium sensor of polycystin 2"

10:30AM – 11:00AM

Group Photo & FASEB Sponsored Coffee Break

11:00AM – 11:30AM

Darren Wallace, University of Kansas Medical Center, Kansas City
"Regulation of cAMP signaling in PKD"

11:30AM – 12:00PM

Jordan Kreidberg, Boston Children's Hospital, Boston
"Receptor tyrosine kinase and Wnt signaling in ADPKD"

12:00PM – 12:15PM

Vladimir G. Gainullin, Mayo Clinic, Rochester
"Polycystin-2 governs polycystin-1 maturation and modifies PKD severity"

12:15PM – 1:15PM

Lunch

Free Afternoon

4:00PM – 6:00PM

Poster Session 1

6:00PM – 7:00PM

Dinner

Session 2:

7:00PM – 9:45PM

Cilia, Centrosomes and Cystic Disease

Session Chairs: Jing Zhou, Harvard Medical School, Boston and Alessandra Boletta, Università Vita-Salute San Raffaele, Milan

7:00PM – 7:30PM

Friedhelm Hildebrandt, Harvard Medical School, Boston
"Defective DNA damage repair, aging and cystic disease"

7:30PM – 8:00PM

Angela Wandinger-Ness, University of New Mexico, Albuquerque
"Ciliary membrane trafficking and signaling microdomains"

8:00PM – 8:30PM

Erica Golemis, Fox Chase Cancer Center, Philadelphia
"HSP90 inhibition in ADPKD: mechanisms of action"

8:30PM – 8:45PM

Break

8:45PM – 9:15PM Josh Lipschutz, Medical University of South Carolina, Charleston
“Role of Arl13b and the exocyst in ciliogenesis and exosome signaling”

9:15PM – 9:45PM Xiaogang Li, University of Kansas Medical Center, Kansas City
“Epigenetic regulators promote renal cyst growth in autosomal dominant polycystic kidney disease”

**Tuesday,
August 5, 2014**

7:30AM – 9:00AM

Breakfast

**Session 3
9:00AM – 12:15PM**

PKD Protein Function and Disease Mechanism

Session Chairs: Peter Harris, Mayo Clinic, Rochester and
Dorien Peters, Leiden University Medical Center, Leiden

9:00AM – 9:30AM Wouter Leonhard, Leiden University Medical Center, Leiden
“The mechanism of cyst formation”

9:30AM – 10:00AM Albert Ong, University of Sheffield, Sheffield
“Post-translational regulation of the polycystin proteins by cAMP/PKA”

10:00AM – 10:15AM Stephen Parnell, University of Kansas Medical Center, Kansas City
“Disruption of a protein phosphatase-1 binding domain in polycystin-1 causes PKD in mice”

10:15AM – 10:45AM FASEB Sponsored Coffee Break

10:45AM – 11:15AM York Pei, Toronto General Hospital, Toronto
“The importance of gene dosage on renal disease severity”

11:15AM – 11:45PM Greg Germino, NIH/NIDDK, Bethesda
“Modeling PKD genetic mutations in mice and cultured cells to study disease mechanisms”

11:45PM – 12:15PM Marie Trudel, Institut de Recherches Cliniques de Montréal, Montreal
“Acute kidney injury crosstalk with Pkd1/Pkd2 dosage - increased pathogenesis”

12:15PM – 1:15PM Lunch

Free Afternoon

4:00PM – 6:00PM Poster Session 2

6:00PM – 7:00PM Dinner

Session 4:
7:00PM – 9:45PM

PKD Clinical Trials

Session Chairs: Albert Ong, University of Sheffield, Sheffield and Vicente Torres, Mayo Clinic, Rochester

7:00PM – 7:30PM

Ron Gansevoort, University Medical Center Groningen, Groningen
"V2 receptor antagonists in ADPKD"

7:30PM – 8:00PM

Norberto Perico, Istituto Mario Negri, Bergamo
"Long-acting somatostatin analogue and renal function in ADPKD patients: The ALADIN Trial"

8:00PM – 8:30PM

Ellis Avner, Medical College of Wisconsin, Milwaukee
"Childhood polycystic kidney disease: translational therapies"

8:30PM – 8:45PM

Break

8:45PM – 9:15PM

Peter Harris, Mayo Clinic, Rochester
"Finding genetic factors that influence the ADPKD phenotype"

9:15PM – 9:45PM

Joost Drenth, Radboud University Nijmegen Medical Center, Nijmegen
"Somatic hits in polycystic liver disease"

Wednesday,
August, 6, 2014

7:30AM – 9:00AM

Breakfast

Session 5
9:00AM – 12:15PM

Cilia Signaling

Session Chairs: Friedhelm Hildebrandt, Harvard Medical School, Boston and Peter Igarashi, University of Texas Southwestern Medical Center, Dallas

9:00AM – 9:30AM

Søren Christensen, University of Copenhagen, Copenhagen
"Cilium signaling: crosstalk and networking"

9:30AM – 10:00AM

Beerend Hierck, Leiden University Medical Center, Leiden
"Primary cilia as biomechanical sensors in regulating endothelial function"

10:00AM – 10:15AM

Marion Failler, INSERM, Paris
"Mutations of CEP83 gene cause infantile nephronophthisis and intellectual disability"

10:15AM – 10:45AM

FASEB Sponsored Coffee Break

10:45AM – 11:30AM

Wolfgang Kuehn, University Medical Center Freiburg, Freiburg
"Fluid flow regulated signaling"

11:30AM – 12:00PM

Pamela Tran, University of Kansas Medical Center, Kansas City
"The role of the cilium in hedgehog signaling"

12:00PM – 12:15PM Valeria Padovano, Yale School of Medicine, New Haven
“The polycystins are modulated by cellular oxygen sensing pathways and influence oxygen consumption and HIF1 α activity”

12:15PM – 1:15PM Lunch

Free Afternoon

6:00PM – 7:00PM Dinner

Session 6:

7:00PM – 9:45PM

Rodent Models, Mechanisms

Session Chairs: Katherine Klinger, Genzyme Corporation, Framingham and Greg Germino, NIH/NIDDK, Bethesda

7:00PM – 7:30PM Vicente Torres, Mayo Clinic, Rochester
“Understanding pathogenic mechanisms in polycystic kidney disease, providing clues for therapy: Phosphodiesterases and cystogenic effects of vasopressin.”

7:30PM – 8:00PM Terry Watnick, University of Maryland, Baltimore
“The role of polycystins in lymphatic development”

8:00PM – 8:15PM Paul Winyard, University College London, London
“Critical functional importance of the blood and lymphatic vasculature in polycystic kidney diseases”

8:15PM – 8:30PM Break

8:30PM – 8:45PM Luiz Onuchic, Univ of São Paulo School of Medicine, São Paulo
“Heart abnormalities in Pkd1-deficient mice and effects of galectin-3 knockout”

8:45PM – 9:15PM Stefan Somlo, Yale University, New Haven
“Polycystic kidney and liver diseases: from gene discovery to mechanism”

9:15PM – 9:45PM Michal Mrug, University of Alabama, Birmingham
“Renal injury, immunity and PKD”

**Thursday,
August 7, 2014**

7:30AM – 9:00AM

Breakfast

Session 7

9:00AM – 12:15PM

Model Systems and Drug Screening for PKD

Session Chairs: Terry Watnick, University of Maryland, Baltimore and Iain Drummond, Massachusetts General Hospital, Charlestown

9:00AM – 9:30AM Jinghua Hu, Mayo Clinic, Rochester
“C.elegans to study the fundamental role of transition fibers in cilia and ciliopathies”

9:30AM – 10:00AM	Zhaoxia Sun, Yale University, New Haven <i>“Zebrafish as a model: Pkd2 is essential for intraciliary calcium signaling during left-right development”</i>
10:00AM – 10:15AM	Bonnie Blazer-Yost, Indiana Univ School of Medicine, Indianapolis <i>“Inhibition of cyst growth in PCK and Wpk-Wpk rat models of polycystic kidney disease with very low dose PPARγ agonists”</i>
10:15AM – 10:45AM	FASEB Sponsored Coffee Break
10:45AM – 11:15AM	Soeren Lienkamp, University of Freiburg Medical Center, Freiburg <i>“Nephrocystins in development and cyst formation”</i>
11:15AM – 12:00PM	Peter Igarashi, University of Texas Southwestern Medical Center, Dallas <i>“microRNAs in PKD”</i>
12:00PM – 12:15PM	Andrew Streets, University of Sheffield, Sheffield <i>“Novel therapeutic targets in autosomal dominant polycystic kidney disease identified by parallel mRNA and microRNA microarrays”</i>
12:15PM – 12:45PM	Business Meeting
12:45PM – 1:45PM	Lunch
	Free Afternoon
1:00PM – 6:00PM	Optional Organized Group Activity
5:00PM – 6:00PM	Meet the Experts
6:00PM – 7:00PM	Dinner
<u>Session 8: 7:00PM – 9:45PM</u>	Extra-Renal Manifestations, Confounding Factors and Biomarkers in PKD Session Chairs: Ellis Avner, Medical College of Wisconsin, Milwaukee and Arlene Chapman, Emory University, Atlanta
7:00PM – 7:30PM	Svend Strandgaard, Copenhagen University Hospital, Copenhagen <i>“Low birth weight is associated with earlier onset of end-stage renal disease in autosomal dominant polycystic kidney disease”</i>
7:30PM – 8:00PM	Ron Perrone, Tufts-New England Medical Center, Boston <i>“Cardiovascular complications in PKD”</i>
8:00PM – 8:30PM	James Calvet, University of Kansas Medical Center, Kansas City <i>“The incidence of cancer in ADPKD post-transplant patients is lower than in non-ADPKD patients”</i>
8:30PM – 8:45PM	Break
8:45PM – 9:15PM	Arlene Chapman, Emory University, Atlanta <i>“Imaging as a biomarker for ADPKD”</i>

9:15PM – 9:45PM

Andreas Serra, University of Zurich, Zurich
“Proteomics and biomarkers for ADPKD”

**Friday,
August 8, 2014**

7:30AM – 8:30AM

Breakfast

Session 9

8:30AM – 11:30AM

Cell Polarity, Cellular Defects and Development

Session Chairs: Stefan Somlo, Yale University, New Haven
and Angela Wandinger-Ness, University of New Mexico,
Albuquerque

8:30AM – 9:00AM

Thomas Carroll, UT Southwestern Medical Center, Dallas
*“Lkb1 represses cyst formation and regulates glutamine
metabolism”*

9:00AM – 9:30AM

Iain Drummond, Massachusetts General Hospital, Charlestown
*“Modulation of the secretory pathway rescues zebrafish PKD
pathology”*

9:30AM – 9:45AM

Armelle Grevellec, Institut Cochin, Université Paris Descartes, Paris
*“A novel mechanism of glomerular cyst formation in Hnf1 β -
deficiency”*

9:45AM – 10:00AM

Alexis Hofherr, University Medical Center Freiburg, Freiburg
“N-glycosylation determines the abundance of polycystin-2”

10:00AM – 10:15AM

FASEB Sponsored Break

10:15AM – 10:45AM

Jing Zhou, Harvard Medical School, Boston
*“Polycystins in actin cytoskeleton organization and directional cell
migration”*

10:45AM – 11:15AM

Alessandra Boletta, San Raffaele Scientific Institute, Milan
*“The role of polycystin in convergent extension and tubular
morphogenesis”*

11:15AM – 11:30AM

Closing Comments

11:30AM

Departures
Boxed Lunches Available

END OF CONFERENCE

For additional information contact:

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August 3-8, 2014
Renaissance Tuscany Il Ciocco Resort & Spa, Lucca, Italy

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