

The 9th International Podocyte Conference

April 22-25, 2012

**Miami Beach Resort & Spa
4833 Collins Avenue
Miami Beach, Florida 33140**

Sunday, April 22, 2012

3:00 – 8:00 PM	Registration
7:00 PM	Get-together for bites and drinks (Optional)

Monday, April 23, 2012

7:00-8:00 AM	Breakfast
8:00 AM	Welcome Jochen Reiser, MD, PhD and Pascal Goldschmidt, MD Dr. Irving Smokler, President, The NephCure Foundation
8:20 AM	Alonzo Mourning <i>"Proteinuria: A patient's view"</i>
8:35 AM	John Sedor, MD <i>"Proteinuria: A nephrologist's view"</i>

Session 1

Systems Biology

Chairs: Richard Johnson, MD & Matthias Kretzler, MD

9:00 AM	Ali Gharavi, MD <i>"Searching for Genomic Disorders in Renal Hypodysplasia, a Secondary Cause of FSGS"</i>
9:25 AM	Katalin Susztak, MD, PhD <i>"Genomics and epigenomics of diabetic kidney disease"</i>

9:50 AM	David Salant, MD <i>"Immune-mediated podocyte injury"</i>
10:15AM	Karlhans Endlich, MD <i>"PodNet - A Protein-Protein Interaction Network of the Podocyte"</i>
10:40 AM	Break
11:00 – 11:25 AM	Panel Discussion 1: "Integrating Pathology and Systems Biology" Dontscho Kerjaschki, MD; Laura Barisoni, PhD; Agnes Fogo, MD; Richard Johnson, MD; Matthias Kretzler, MD; Wilhelm Kriz, MD; Maria Pia Rastaldi, PhD

Session 2

Selected presentations from abstracts

Chairs: Randy Levinson, PhD (Senior Editor, Nature Medicine)

11:30 AM	Henning Hagmann, MD <i>"The lipid-modifying enzyme PON2 as a new interaction partner and regulator of TRPC6"</i>
11:45 AM	Andreas Kistler, MD <i>"Janus-headed TRPC6: the calcium channel, known to cause FSGS when chronically hyperactive, protects podocytes from acute complement-mediated injury"</i>
12:00 – 1:00 PM	Lunch / Posters set-up

Session 3

Integrins and the Sole Plate

Chairs: Jordan Kreidberg, MD, PhD and Roy Zent, MD

1:00 PM	Amin Arnaout, MD <i>"Integrin biology and structure"</i>
1:25 PM	Ambra Pozzi, MD <i>"Regulation of glomerular collagen homeostasis by the matrix receptors integrins"</i>
1:50 PM	Chuanyue Wu, MD <i>"The integrin-actin network in podocytes"</i>

Session 4

Actin Dynamics, Cell Motility and Protein Sorting

Chairs: Peter Mundel, MD and Lawrence Holzman, MD

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| 2:15 PM | Hidde Ploegh, PhD
<i>"Quality and quantity control at the endoplasmic reticulum"</i> |
| 2:40 PM | Shuta Ishibe, MD
<i>"Podocytes Stuck in Traffic- A link between the endocytic machinery and the actin cytoskeleton"</i> |
| 3:05 PM | Toshiro Fujita, MD
<i>"Activation of Rac1-mineralocorticoid receptor pathway in proteinuric kidney disease"</i> |
| 3:30 PM | Break |
| 3:45 – 4:30 PM | Panel Discussion 2: "The Podocyte Cytoskeleton"

Thomas Benzing, MD; Lawrence Holzman, MD; Jordan Kreidberg, MD; Peter Mundel, MD; Roy Zent, MD |
| 4:30 - 4:45 PM | Matthias Kretzler, MD
<i>"Neptune"</i> |
| 4:45 – 6:30 PM | Poster Session/Poster Presentation. Odd Numbers, 5:00-6:00 PM |
| 7:00 PM | Dinner (Speakers and Chairs)
Free Evening (Conference Registrants) |

Tuesday, April 24, 2011

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| 7:00 – 8:00 AM | Breakfast |
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Session 5

The Slit Diaphragm, an Expanding Platform

Chairs: Karl Tryggvason, MD, PhD and Harry Holthoefer, MD, PhD

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| 8:00 AM | Tobias Huber, MD
<i>"Novel insights in Neph-Nephrin function"</i> |
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- 8:25 AM **Lorenz Sellin, MD**
"Modifiers of Nephrin Interactions in Proteinuria"
- 8:50 AM **Mario Schiffer, MD**
"Stabilizers and Destabilizers of the Slit Diaphragm"

Session 6

Genetic Disorders

Chairs: Susan Quaggin, MD and Michelle Winn, MD

- 9:15 AM **Martin Pollak, MD**
"Genetic Basis of FSGS in Adults: Common and Rare Forms"
- 9:40 AM **Friedhelm Hildebrandt, MD**
"Exome resequencing reveals novel genes for nephrotic syndrome that interact within a RhoA-related pathway"
- 10:05 AM **Stuart Dryer, PhD**
"Podocin, TRPC6, and regulation of podocyte mechanosensitivity"
- 10:30 AM **Break**
- 10:45 – 11:30 AM **Panel Discussion 3: "From Genetics to Mechanism of Disease"**
- Michelle Winn, MD; Friedhelm Hildebrandt, MD; Jeffrey Kopp, MD; Martin Pollak, MD; William Smoyer, MD; Susan Quaggin, MD**

Session 7

Selected presentations from abstracts

Chairs: Senior Editors of JCI and NEJM

- 11:45 AM Wilhelm Kriz awardee: **Heon Yung Gee, MD, PhD**
"The Novel Nephrotic Syndrome-Causing Genes, ARHGDIA, ANKRD25, and MPDZ Interact with RHOA in Podocytes"
- 12:00 PM **Shazia Ashraf, MS**
"Targeted Exome Sequencing and Homozygosity Mapping Identify Mutation of ADCK4 as a Novel Single-Gene Cause of Steroid Resistant Nephrotic Syndrome"
- 12:15 PM **Andreas Goldwich, PhD**
"Podocytes as non-hematopoietic professional antigen-presenting cells"
- 12:30 – 1:30 PM **Lunch**

Session 8

New Views of the Glomerulus

Chairs: Iain Drummond, PhD and Vivette D'Agati, MD

- 1:30 PM **Bruce Molitoris, MD**
"Dynamic Aspects of Glomerular Permeability"
- 1:55 PM **Janos Peti-Peterdi, MD**
"Intravital imaging of novel GFP mouse models reveal podocyte and parietal cell dynamics and confirm the glomerular origin of proteinuria in FSGS"
- 2:20 PM **Erwin Boettlinger, MD**
"Cell-Cell Crosstalk In Podocyte-Initiated Glomerular Injury"

Session 9

New pathways of proteinuria

Chairs: Jeff Miner and Moin Saleem

- 2:45 PM **Richard Coward, PhD**
"The podocyte, insulin and the IGFs. Insights from knockouts?"
- 3:10 PM **Sumant Chugh, MD**
"Angiopoietin-like-4 in nephrotic syndrome"
- 3:35 PM **Christian Faul, PhD**
"Paracellular protein transport across the epithelium of the small intestine and the glomerular filter – mechanistic similarities?"
- 4:00 PM **Roger Wiggins, MD**
"Growth and podocyte stress"
- 4:30 – 5:15 PM **Coffee Break**

Session 10

Young Investigators

Chairs: Andrey Shaw, MD, PhD and Ross Cagan, PhD

- 5:15 PM **Laurence Beck, MD**
"Characterizing the humoral response to the podocyte antigen PLA2R in membranous"

nephropathy"

- 5:30 PM **Katsuhiko Asanuma, MD, PhD**
"Dendrin location in podocytes is associated with disease progression in animal and human glomerulopathy"
- 5:45 PM **Kirk Campbell, MD**
"Regulation of Splicing Factor SC35 expression by YAP2 is a novel podocyte survival mechanism"
- 6:00 PM **Jenny Nystrom, PhD**
"Melanocortin receptors in the kidney"
- 6:15 PM **Changli Wei, PhD**
"Characteristics of serum suPAR in distinct conservatively treated FSGS cohorts"
- 6:30 – 7:30 PM **Poster Session/Poster Presentation, Even Numbers**
- 7:30 PM **Closing Dinner / Wilhelm Kriz and Marilyn Farquhar Awards**

Wednesday, April 25, 2012

- 7:00 – 8:00 AM **Breakfast**

Session 11
Glomerular Regeneration

Chairs: Marcus Moeller, MD and Kumar Sharma, MD

- 8:00 AM **Farhad Danesh, MD**
"Nanotherapy with Secretome from Embryonic Stem Cells in Kidney Injury"
- 8:25 AM **Raghu Kalluri, MD, PhD**
"Mechanism and therapeutic potential of induced pluripotent stem cells in kidney repair and regeneration"
- 8:50 AM **Stuart Shankland, MD**
"A new glomerular epithelial cell progenitor....stay tuned"

Session 12
Novel Therapeutic Strategies

Chairs: Peter Mathieson, MD and John He, MD

9:15 AM	Robert Zivin, PhD (Keynote Speaker) <i>"Innovating away from chronic care"</i>
9:40 AM	Jeffrey Kopp, MD <i>"FSGS therapy: patient, pathway, pharmacopeia, and prevention"</i>
10:05 AM	Vineet Gupta, PhD <i>"Podocytes in Drug Discovery"</i>
10:30 AM	Break
10:45 AM	Sanja Sever, PhD <i>"Dynamin, a novel target in chronic kidney disease?"</i>
11:15 AM	Alessia Fornoni, MD, PhD <i>"Targeting lipids in FSGS and Diabetic Kidney Disease"</i>
11:45 AM	Concluding Remarks & Announcements Jochen Reiser, MD, PhD

*Subject to Change