



**Preliminary Scientific Program (last updated January 12, 2016)**

**SUNDAY, APRIL 3, 2016**

17:30                      Registration and Welcome Reception                      *Dan Carmel Hotel, Haifa*

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**19:00                      OPENING REMARKS                      *Dan Carmel Hotel, Haifa***

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**Karl Skorecki & Suheir Assady**, Conference Co-Chairs, Israel  
**Yona Yahav**, Mayor of Haifa, Israel  
**Eliezer Shalev**, Dean, Faculty of Medicine, Technion, Haifa, Israel  
**Rafael Beyar**, Director of Rambam Health Care Campus, Haifa, Israel

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**19:15 – 20:00              PLENARY LECTURE 1                      *Dan Carmel Hotel, Haifa***

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SCIENTIFIC DISCOVERY AGAINST ALL ODDS  
**Dan Shechtman**, Israel

**MONDAY, APRIL 4, 2016**

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07:30 – 08:15              **"MEET THE PROFESSOR"**                      *Rambam Health Care Campus, Haifa*  
*Students and young scientists to meet established investigators*  
***Pre-Registration is required. Space is limited.***

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**There will be 5 individual groups:**

**Jeremy Duffield**, USA  
**Katalin Susztak**, USA  
**Hans-Joachim Anders**, Germany  
**Paola Romagnani**, Italy  
**TBA**

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**08:30 – 09:00              PLENARY LECTURE 2                      *Rambam Health Care Campus, Haifa***

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**Chair: Suheir Assady**, Israel

08:30                      MANY WAYS TO DIE; MECHANISMS OF CELL DEATH  
**Adi Kimchi**, Israel



# 11<sup>th</sup> INTERNATIONAL PODOCYTE CONFERENCE

April 3-6, 2016 | Haifa and Jerusalem, Israel



**MONDAY 4, APRIL, 2016 (continued)**

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**09:00 –10:10**      **SESSION 1:**      *Rambam Health Care Campus, Haifa*  
**PODOCYTE ORIGINS AND GLOMERULAR DEVELOPMENT AND  
DIFFERENTIATION**

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**Chairs: William Smoyer, USA; Paola Romagnani, Italy**

09:00      INTRINSIC AGE-DEPENDENT CHANGES AND CELL-CELL CONTACTS  
REGULATE NEPHRON PROGENITOR LIFESPAN  
**Raphael Kopan, USA**

09:20      THE ROLE OF WNT SIGNALING IN THE SPECIFICATION OF  
GLOMERULAR PODOCYTES  
**Tom Schultheiss, Israel**

09:40      TBA

10:00      TBA

10:10      *Discussion, Coffee & Networking*

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**11:00 –12:30**      **SESSION 2**      *Rambam Health Care Campus, Haifa*  
**GLOMERULAR STRUCTURAL AND FUNCTIONAL INTEGRITY**

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**Chairs: Jeffrey Miner, USA; Wilhelm Kriz, Germany**

11:00      MOLECULAR PRINCIPLES OF GLOMERULAR PROTEINURIA  
**Tobias Huber, Germany**

11:20      ROLE OF ECM FOR GLOMERULAR FUNCTION AND MAINTENANCE  
**Rachel Lennon, UK**

11:40      MITOCHONDRIAL FUNCTION IN PODOCYTES  
**John He, USA**

12:00      PROTECTIVE PODOCYTE GROWTH FACTORS THAT MAINTAIN  
GLOMERULAR ENDOTHELIAL INTEGRITY  
**Becky Foster, UK**

12:20      TBA

12:35      *Discussion, Lunch & Poster Session I*



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**MONDAY 4, APRIL, 2016 (continued)**

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**14:00 – 15:30**      **SESSION 3**      *Rambam Health Care Campus, Haifa*  
**PODOCYTE CELL SIGNALING AND METABOLISM IN HEALTH AND DISEASE**

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**Chairs: Moshe Levi, USA; Peter Mundel, USA**

- 14:00      mTOR AND GLOMERULAR FUNCTION  
**Ken Inoki, UK**
  - 14:20      NEW INSIGHTS INTO THE PODOCYTE ADHESOME  
**Christoph Schell, Germany**
  - 14:40      EMERGING ROLES FOR TRPC6 IN PROTEINURIC KIDNEY DISEASES  
**Robert Spurney, USA**  
*In Memoriam of Michelle Winn*
  - 15:00      THE ROLE OF PROHIBITINS IN PODOCYTES  
**Paul Brinkkoetter, Germany**
  - 15:20      TBA
  - 15:30      *Discussion, Networking & Poster Session II*
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**16:30 – 17:30**      **SESSION 4**      *Rambam Health Care Campus, Haifa*  
**IMAGING AND INTRACELLULAR TRAFFICKING**

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**Chairs: Thomas Benzing, Germany; Peter Mathieson, Hong Kong**

- 16:30      THE CELL BIOLOGY OF FOOT PROCESS EFFACEMENT  
**Andrey Shaw, USA**
- 16:50      INTRAVITAL IMAGING OF THE ORIGIN, MIGRATION AND FATE OF GLOMERULAR STEM CELLS  
**János Peti-Peterdi, USA**
- 17:10      MULTIPLE ROLES OF ACTIN IN ENDOCYTOSIS  
**Sanja Sever, USA**
- 17:30      *Tour of Rambam Health Care Campus*
- 19:00      *Festive Dinner and Awards (Knights Hall-Acre)*



**TUESDAY 5, APRIL, 2016**

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07:30 – 08:15      **"MEET THE PROFESSOR"**      *Rambam Health Care Campus, Haifa*  
*Students and young scientists to meet established investigators*  
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**There will be 5 individual groups:**

- M. Pollak**, USA
- M. Moeller**, Germany
- F. Hildebrandt**, USA
- T. Huber**, Germany
- K. Inoki**, USA

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**08:30 – 09:00**      **PLENARY LECTURE 3**      *Rambam Health Care Campus, Haifa*  
**Chair: Talia Weinstein**, Israel

08:30      MEMBRANOUS NEPHROPATHY-PLA2R AND BEYOND?  
**David Salant**, USA

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09:00 – 10:30      **SESSION 5:**      *Rambam Health Care Campus, Haifa*  
**ORGANISMAL AND STEM CELL EXPERIMENTAL PLATFORMS FOR**  
**GLOMERULAR AND PODOCYTE FUNCTION IN HEALTH AND**  
**DISEASE**

**Chairs: Stuart Shankland**, USA; **Susan Quaggin**, USA

09:00      MODELING PODOCYTE DISEASE WITH HUMAN KIDNEY ORGANOIDS  
**Benjamin Freedman**, USA

09:20      A HUMANIZED MOUSE MODEL OF FSGS  
**Eunsil Hahm**, USA

09:40      STUDYING PODOCYTE MORPHOLOGY AND FUNCTION IN LIVING ZEBRAFISH  
**Karl Hans Endlich**, Germany

10:00      THE PODOCYTE AND FLYABETES  
**Ross Cagan**, USA

10:20      TBA

10:30      *Discussion, Coffee Break & Networking*



**TUESDAY 5, APRIL, 2016 (continued)**

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**11:10 – 12:30**      **SESSION 6:**      *Rambam Health Care Campus, Haifa*  
**MECHANISTIC INSIGHTS FROM THE GENETICS OF GLOMERULAR DISEASE**

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**Chairs: Martin Pollak, USA; Friedhelm Hildebrandt, USA**

11:10                    MUTATIONS IN 6 NOVEL GENES DEFINE A PATHOGENIC PATHWAY IN PARTIALLY STEROID-SENSITIVE NEPHROTIC SYNDROME  
**Friedhelm Hildebrandt, USA**

11:30                    APOL1 RENAL RISK VARIANTS: FIRE IN THE PODOCYTE  
**Jeffrey B. Kopp, USA**

11:50                    ROLE OF COL4A1 IN EMBRYONIC PODOCYTE DIFFERENTIATION AND IN ADULT PECS MAINTENANCE  
**Emmanuelle Plaisier, France**

12:10                    TBA

12:20                    TBA

12:30                    *Discussion, Lunch & Poster Session III*

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**14:00 – 15:20**      **SESSION 7:**      *Rambam Health Care Campus, Haifa*  
**ACQUIRED PODOCYTE AND GLOMERULAR INJURY STATES AND REPAIR**

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**Chairs: Hans-Joachim Anders, Germany; Richard Coward, UK**

14:00                    OBESITY-RELATED GLOMERULOPATHY  
**Michal Herman-Edelstein, Israel**

14:20                    PODOCYTES AND APOL1 ASSOCIATED KIDNEY DISEASE  
**Katalin Susztak, USA**

14:40                    AUTOCRINE AND PARACRINE FUNCTIONS OF SDF-1/CXCL12 IN PODOCYTE HOMEOSTASIS AND INJURY  
**Hans-Joachim Anders, Germany**

15:00                    TBA

15:10                    TBA

15:20                    *Discussion, Networking & Poster Session IV*





**TUESDAY 5, APRIL, 2016 (continued)**

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**16:30 – 17:45**      **SESSION 8:**      *Rambam Health Care Campus, Haifa*  
**PANEL: THE CHANGING LANDSCAPE OF SCIENTIFIC PUBLICATION**

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16:30      PLENARY STATEMENT JOURNAL EDITOR  
**Richard Horton, UK**

17:00      PLENARY DISCUSSION  
**Moderators:**  
**Randy Levinson, USA; TBA**

Participants: **Thomas Benzing**, Germany, **Tobias Huber**, Germany,  
**Lawrence Holzman**, USA, **Paul Kimmel**, USA, **Susan Quaggin**, USA



**WEDNESDAY 6, APRIL, 2016**

07:00 **Buses leave to Jerusalem**

09:30 **Coffee Break and Networking**

**10:00 – 10:30** **PLENARY LECTURE 4** *Jerusalem*  
**Chairs: Katalin Susztak, USA**

10:00 GENOME EDITING, PROSPECTS FOR THERAPEUTIC INTERVENTION  
**Sara Selig, Israel**

**10:30 – 12:00** **SESSION 9:** *Jerusalem*  
**microRNAs AND PODOCYTES**  
**Chairs: Jeremy Duffield, USA; Yaacov Frishberg, Israel**

10:30 INTRODUCTION AND miRNA21 & ALPORT SYNDROME  
**Jeremy Duffield, USA**

10:50 ROLE OF A PODOCYTE MICRORNA IN DIABETIC NEPHROPATHY  
**Vineet Gupta, USA**

11:10 miRNA-92a-INDUCED LOSS OF PODOCYTE QUIESCENCE CAUSES CRESCENTIC GLOMERULONEPHRITIS  
**Pierre-Louis Tharaux, France**

11:30 miRNA-30 FAMILY MEMBERS REGULATE CALCIUM/CALCINEURIN SIGNALING IN PODOCYTES  
**Zhi-hong Liu, China**

11:50 TBA

12:00 Lunch Break

**13:30 – 14:15** **SESSION 10:** *Jerusalem*  
**OXFORD STYLE DEBATE - DO PODOCYTES REGENERATE?**

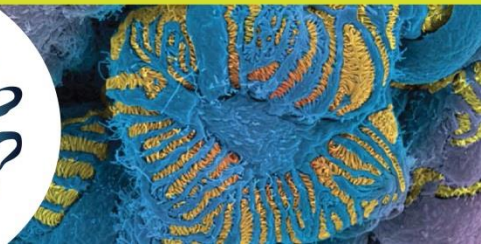
**Judges: TBA**

13:30 **Moderator: Karl Skorecki, Israel**  
**Pro: Stuart Shankland, USA; Against: Marcus Moeller, Germany**



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**WEDNESDAY 6, APRIL, 2016 (continued)**

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**14:15 – 15:30**

**SESSION 11:  
ADVANCES IN GLOMERULAR AND PODOCYTE DIAGNOSTICS &  
THERAPEUTICS**

*Jerusalem*

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**Chairs: Jochen Reiser, USA; Matthew Sampson, USA**

14:15

TARGETING PODOCYTE LIPIDS IN GLOMERULAR DISEASES  
**Alessia Fornoni, USA**

14:35

PODOCYTE AND GBM-CROSSTALK VIA miRNAs  
**Mario Schiffer, Germany**

14:55

MOLECULAR PHENOTYPING FOR PRECISION MEDICINE IN GLOMERULAR  
DISEASE  
**Matthias Kretzler, USA**

15:15

TBA

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**15:30 – 18:00**

**SESSION 12  
SCIENCE MEETS PHARMA (By Invitation Only)**

*Jerusalem*

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**Moderator: Lauren Lee, USA**