

15:00 REGISTRATION (Foyer at Lower Lobby Level)

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17:45 OPENING REMARKS (Ballroom)

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**Elena Torban and Andrey Cybulsky**, Conference co-chairs (Montreal, Canada)

**David Eidelman**, Dean of Faculty of Medicine, McGill University, (Montreal, Canada)

**Joshua M. Tarnoff**, CEO, NephCure Kidney International (Philadelphia, USA)

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18:30 – 19:00 PLENARY LECTURE (Ballroom)

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**Chair: Elena Torban** (Canada)

THE GENETICS OF DIABETIC KIDNEY DISEASE

**Jose Florez** (Harvard University/Broad Institute/MIT, USA).

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19:20 – 21:15 **RECEPTION (Caf'conc' theater)**

*Jazz music, light refreshments and wine*

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19:00 – 19:30 **All blitz participants upload their slides** (Ballroom IT service)

21:00 *Organizing/International committee meeting*

7:30 – 8:00	<i>Coffee (Foyer, Viger A)</i>
8:00 – 8:30	<b>PLENARY LECTURE</b> (Ballroom) <b>Chair: Paul Goodyer</b> (Canada)  DISSECTING PODOCYTE DEVELOPMENT AND DISEASE IN KIDNEY ORGANOID <b>Ryuichi Nishinakamura</b> (Kumamoto University, Japan)
8:30 – 10:10	<b>SESSION 1:</b> (Ballroom) <b>PODOCYTE ORIGIN IN DEVELOPMENT AND DISEASE</b>  <i>Chairs: Paul Goodyer (Canada) &amp; Susan Quaggin (USA)</i>
8:30	WT1 IN HEALTHY AND INJURED PODOCYTES <b>Jordan Kreidberg</b> (USA)
8:50	miRNAs IN PODOCYTE DEVELOPMENT <b>Jacqueline Ho</b> (USA)
9:10	EPIGENETIC CONTROL OF GLOMERULAR DEVELOPMENT <b>Nicola Wanner</b> (Germany)
9:30	DEVELOPMENTAL ORIGIN OF PODOCYTES IN INJURY <b>Stuart Shankland</b> (USA)
9:50	<i>Short talk:</i> Kidney organoids: a model system for hereditary glomerular diseases <b>Giulia Menara</b> (France)
10:00	<i>Short talk:</i> Derivation of functional podocytes from human iPS cells and the establishment of a kidney glomerulus chip. <b>Samira Musah</b> (USA)
10:10 - 10:30	<i>Coffee break and networking (Foyer &amp; Viger Hall A)</i>
10:30 – 12:10	<b>SESSION 2:</b> (Ballroom) <b>POSTER BLITZ AND TRAINEE ENGAGEMENT</b>  <i>Chairs: Barbara Ballermann (Canada) and Tobias Huber (Germany)</i>
10:30	OVERVIEW OF KIDNEY RESEARCH TRAINING OPPORTUNITIES IN CANADA THROUGH THE <i>KRESCENT</i> PROGRAM <b>Nina Jones</b> (Canada) <i>Introduction by Elizabeth Fowler, National Director of Research, The Kidney Foundation of Canada</i>
10:55 – 12:10	<b>BLITZ:</b> 2 MIN PRESENTATIONS BY FIRST AUTHORS OF ABSTRACTS <b>Highlight of trainees and young investigators</b> (30 presenters)
12:10 – 13:30	<i>Lunch and Exhibit viewing (Foyer &amp; Viger A&amp;B)</i>
12:30 – 14:00	<b>POSTER SESSION I</b> ( <i>Viger B&amp;C</i> )

**14:00 – 15:50**      **SESSION 3:** (Ballroom)  
**PODOCYTE ARCHITECTURE: FOCUS ON CYTOSKELETON, SLIT DIAPHRAGM AND THEIR REGULATION IN HEALTH AND DISEASE**

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*Chairs: Mira Krendel (USA) & Shaoling Zhang (Canada)*

14:00                CYTOSKELETON REGULATORS IN HEALTH AND DISEASE  
**Tomoko Takano** (Canada)

14:20                APICAL DOMAIN FUNCTION OF CLIC5A IN PODOCYTES  
**Barbara Ballermann** (Canada)

14:40                INTEGRINS AND THE KIDNEY  
**Roy Zent** (USA)

15:00                PHOSPHOTYROSINE SIGNALLING PATHWAYS REGULATING KIDNEY PODOCYTE MORPHOLOGY  
**Nina Jones** (Canada)

15:20                REGULATION OF PODOCYTE ACTIN REMODELING AND ENDOCYTOSIS  
**Sanja Sever** (USA)

15:40                *Short Talk:* Effects of SRNS-associated mutations on Myo1e stability, localization, and functions in podocytes. **Pei-Ju Liu** (USA)

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**15:50 – 16:10**      *Coffee break and networking (Foyer, Viger A)*

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**16:10 – 18:00**      **SESSION 4:** (Ballroom)  
**PODOCYTES AND FRIENDS**

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*Chairs: Thomas Benzing (Germany) & Karl Skorecki (Israel)*

16:00                CROSSTALK BETWEEN ENDOTHELIUM AND PODOCYTES  
**Susan Quaggin** (USA)

16:20                CROSSTALK BETWEEN GBM AND PODOCYTES  
**Rachel Lennon** (UK)

16:40                MICROPARTICLES IN GLOMERULAR DISEASE  
**Dylan Burger** (Canada)

17:00                MECHANISM OF PARIETAL CELL RECRUITMENT IN FSGS AND CRESCENTIC GLOMERULONEPHRITIS  
**Pierre-Louis Tharaux** (France)

17:20                THE DOWNSIDE OF GLOMERULAR FILTRATION: LIPOTOXICITY IN THE PROXIMAL TUBULES. **Matias Simons** (France)

17:40                *Short talk:* Imaging the podocyte and the filtration barrier using super-resolution fluorescence light microscopy. **David Unnersjö-Jess** (Sweden)

17:50                *Short talk:* Podocyte recruitment in the adult kidney induced by stimulation of macula densa Wnt signaling. **Georgina Gyarmati** (USA)

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**19:30 – 22:30**      **BANQUET FOR ALL PARTICIPANTS** (Ballroom, Marriott)

*Farquhar award presentation*

7:30 – 8:00	<i>Coffee (Foyer &amp; Viger A)</i>
8:00 – 8:30	<b>PLENARY LECTURE</b> (Ballroom) <b>Chair: Andrey Cybulsky</b> (Canada)  PERSONALIZED MEDICINE IN THE 21 <sup>st</sup> CENTURY <b>Nada Jabado</b> (McGill University, Canada)
8:30 – 10:00	<b>SESSION 5:</b> <b>IMMUNE ETIOLOGY OF NEPHROTIC SYNDROME</b>  <b>Chairs: Jochen Reiser (USA) &amp; Harry Holthofer (Finland)</b>
8:30	T AND B-CELL INVOLVEMENT IN GLOMERULAR DISEASE <b>Leonardo Riella</b> (USA)
8:50	B CELLS IN IDIOPATHIC NEPHROTIC SYNDROME: RESEARCH AND CLINICAL IMPLICATIONS <b>Manuela Colucci</b> (Italy)
9:10	suPAR: AN UPDATE <b>Jochen Reiser</b> (USA)
9:30	IMMUNE-MEDIATED EXPERIMENTAL MODELS OF PODOCYTE DISEASE <b>David Salant</b> (USA)
9:50	<i>Short talk:</i> Generation of a humanized mouse model for SLE/LN for studying human lupus and testing potential therapies. <b>Samia Khan</b> (USA)
10:00- 10:20am	<i>Coffee break and networking (Foyer &amp; Viger A)</i>
10:20 – 12:10pm	<b>SESSION 6:</b> <b>ADVANCES IN THERAPEUTICS FOR GLOMERULAR NEPHROPATHIES</b>  <b>Chairs: Suheir Assady (Israel) and Alessia Fornoni (USA)</b>
10:20	STATE OF CLINICAL TRIALS IN GN: THE GLASS IS HALF FULL! <b>Heather Reich</b> (Canada)
10:40	IMMUNOMODULATORS AND OTHER THERAPIES IN RECURRENT FSGS <b>Nada Alachkar</b> (USA)
11:00	SMALL MOLECULE INHIBITORS TO TREAT SRNS <b>Moin Saleem</b> (UK)
11:20	MECHANISM-BASED PRECISION THERAPIES FOR PROGRESSIVE KIDNEY DISEASES <b>Anna Greka</b> (USA)
11:40	PODOCYTE TARGETS IN ALPORT SYNDROME <b>Alessia Fornoni</b> (USA)
11:50	<i>Short talk:</i> Nephrotic syndrome outcome prediction using tissue transcriptomic profiles. <b>Laura Mariani</b> (USA)
12:00	<i>Short talk:</i> High throughput screening for drug discovery against ApoL1 toxicity in HEK cells. <b>Ira Bavli</b> (Israel)

12:10 – 13:30 *Lunch and Exhibit viewing (Foyer and Viger A&B)*

12:30 – 14:00 **POSTER SESSION II** (*Viger B&C*)

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14:00 – 15:30 **SESSION 7:  
COMPLEMENT-MEDIATED DISEASES IN THE GLOMERULUS**

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*Chairs: Hiroshi Kawachi (Japan) & David Salant (USA)*

14:00 COMPLEMENT IN aHUS AND C3GN  
**Craig Langman** (USA)

14:20 ATYPICAL HEMOLYTIC UREMIC SYNDROME: GENETICS OF ENDOGENOUS  
COMPLEMENT REGULATORS  
**Marina Noris** (Italy)

14:40 COMPLEMENT IN MEMBRANOUS NEPHROPATHY  
**Pierre Ronco** (France)

15:00 TARGETING COMPLEMENT IN THE KIDNEY  
**Steven Sacks** (UK)

15:20 *Short talk:* Targetable mechanisms identified from shared molecular profiles in ANCA-associated vasculitis and nephrotic syndrome. **Sean Eddy** (USA)

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15:30 – 15:50 *Coffee break and networking (Foyer and Viger A)*

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15:50 – 17:40 **SESSION 8:  
METABOLIC ORIGIN OF GLOMERULAR DISEASE**

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*Chairs: Peter Mathieson (UK) & Chang-ying Xing (China)*

15:50 METABOLIC CONTROL OF PODOCYTE FUNCTION  
**Tobias Huber** (Germany)

16:10 PROTEOSTASIS AND ER STRESS IN PODOCYTES  
**Andrey Cybulsky** (Canada)

16:30 UBIQUITIN PROTEASOME SYSTEM IN PODOCYTE DISEASE  
**Catherine Meyer-Schwesinger** (Germany)

16:50 NOX GENES IN PODOCYTES  
**Chris Kennedy** (Canada)

17:10 *Short talk:* ER targeting is a determinant of APOL1-linked cytotoxicity.  
**Daria Mueller** (Germany)

17:20 *Short talk:* Critical role of NOX4/TRPC6 pathway in podocyte calcium regulation and kidney damage in diabetic nephropathy. **Alexander Staruschenko** (USA)

17:30 *Short talk:* Diabetic conditions enhance the phosphorylation of PACSIN2/syndapin II in podocytes. **Vincent Dumont** (Finland)

8:00 – 8:30 *Coffee (Foyer and Viger A)*

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8:30 – 10:20 **SESSION 9:  
GENETICS OF GLOMERULAR DISEASE**

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*Chairs: Moin Saleem (UK) and Katalin Susztak (USA)*

8:30 GENETIC TESTING IN ADULTS WITH PROTEINURIA AND FOCAL SEGMENTAL GLOMERULOSCLEROSIS (FSGS)  
**Moumita Barua** (Canada)

8:50 MONOGENIC MUTATIONS PERSONALIZE NEPHROTIC SYNDROME  
**Friedhelm Hildebrandt** (USA)

9:10 TBA  
**Katalin Susztak** (USA)

9:30 FABRY'S DISEASE AND PODOCYTES  
**Daniel Bichet** (Canada)

9:50 ALPORT SYNDROME AND OPPORTUNITIES FOR RESCUE  
**Jeff Miner** (USA)

10:10 *Short talk:* Mutations in new genes as a cause of familial FSGS through a vesicular recycling defect. **Guillaume Dorval** (France)

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10:20 – 10:30 *Coffee break and networking (Foyer and Viger A)*

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10:30 – 12:10 **SESSION 10:  
MODEL SYSTEMS TO STUDY PODOCYTES**

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*Chairs: Wilhelm Kriz (Germany) & Stuart Shankland (USA)*

10:30 SHOW ME YOUR FEET...! MEASURING PODOCYTE FOOT PROCESSES BY SUPER-RESOLUTION MICROSCOPY  
**Nicole Endlich** (Germany)

10:50 FLY NEPHROCYTES TO STUDY PODOCYTE BIOLOGY AND GLOMERULAR DISEASE  
**Zhe Han** (USA)

11:10 ULTRA-MINIATURIZED PODOCYTE CELL-BASED HIGH-CONTENT SCREENING ASSAY  
**Vineet Gupta** (USA)

11:30 MOUSE MODEL TO STUDY PODOCYTE ADHESION AND STRUCTURE: FROM HUMAN PATIENTS TO ANIMAL MODELS AND BACK  
**Weining Lu** (USA)

11:50 HUMANIZED MICE TO STUDY PODOCYTE DISEASE  
**Eunsil Hahm** (USA)

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12:10 – 12:30 **CONCLUDING REMARKS**

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**Elena Torban & Andrey Cybulsky** – Montreal's IPC organizing committee  
**International IPC steering committee and NephCure** -- announcement of the next IPC  
*feedback questionnaire collection*

## **CANADIAN 12<sup>TH</sup> IPC SCIENTIFIC COMMITTEE:**

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**Elena Torban** (Chair), Division of Nephrology, McGill University, Montreal, Quebec  
**Andrey Cybulsky** (Co-Chair), Director, Division of Nephrology, McGill University, Montreal, Quebec  
**Tomoko Takano**, Division of Nephrology, McGill University, Montreal, Quebec  
**Paul Goodyer**, Pediatrics and Human Genetics, McGill University, Montreal, Quebec  
**Martin Bitzan**, Director of Pediatric Nephrology, McGill University, Montreal, Quebec  
**Sarah Prichard**, Emeritus, McGill University Montreal, Quebec  
**Barbara Ballermann**, Chair, Department of Medicine, University of Alberta, Edmonton, Alberta  
**Nina Jones**, Department of Cell and Developmental Biology, University of Guelph, Guelph, Ontario  
**Christopher Kennedy**, Senior scientist, Ottawa Kidney Institute, University of Ottawa, Ottawa, Ontario  
**Shao Ling Zhang**, Senior scientist, University of Montreal, Montreal, Quebec  
**Teresa Lavecchia**, Senior administrative coordinator, McGill University Health Center, Montreal, Quebec

## **INTERNATIONAL PODOCYTE CONFERENCE STEERING COMMITTEE**

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**Thomas Benzing**, Director, Kidney Research Center Cologne, University Hospital of Cologne, Germany  
**Harry Holthöfer**, Haartman Institute, University of Helsinki, Helsinki, Finland  
**Lawrence B. Holzman**, Chief, Renal Electrolyte and Hypertension Division, University of Pennsylvania, Philadelphia, USA  
**Tobias B. Huber**, Chair of Medicine, University Medical Center Hamburg-Eppendorf, Hamburg, Germany  
**Wilhelm Kriz**, Institut für Anatomie und Zellbiologie der Universität Heidelberg, Heidelberg, Germany  
**Peter Mathieson**, Principal and Vice-Chancellor, University of Edinburgh, UK  
**Susan E. Quaggin**, Director, Feinberg Cardiovascular Research Institute, Chicago, USA  
**Jochen Reiser**, Chairperson, Department of Internal Medicine, Rush Medical College, Chicago, USA  
**Stuart J. Shankland**, Director, Division of Nephrology, University of Washington, Seattle, USA  
**Karl Skorecki**, Director, Medical and Research Development, Rambam Health Care Campus, Haifa, Israel