Preliminary Programme

There will be 3 sections to the meeting as follows:

1. Pre-meeting focussed on early career researchers (Tue 9th June)
2. Main meeting: Bridging basic and translational research (Wed 10th-Fri 12th June)
3. Patient-focussed meeting: Communicating research (Sat 13th June)

Pre-meeting outline (Tue 8.45-6pm):

08:45-09.05 Introduction

Session I Podocyt-omics: big data, big discoveries?
09:05-09:30 Invited talk
09:30-10.50 4x selected talks
11:50-11:15 Break

Session II Models to investigate podocyte biology
13:30-14:00 Invited talk
14:00-15:20 4x selected talks
15:20-15:45 Break

Session III: Round table discussions - What does the future hold?
15:45-16:30 round table I
16:30-17:15 round table II
17:15-18:00 round table III

Pre-meeting dinner

Main meeting outline: (Wed 8.30am-6pm)

Timing: Day 1 (Wed 8.30am-6pm)

08.30-09.00 Welcome: Local organising committee and NephCure

09.00-12.30 Plenary session I: Podocyte signalling pathways and genetic screening

Basic: Podocyte signalling pathways – Discussion lead and overview: Mira Krendel
Britta George: Crosstalk between the slit diaphragm and cell-matrix adhesions
Christoph Schell: Signals to the cytoskeleton
Break (30 mins) –

Translation: Genetic screening in glomerular disease-Discussion lead and overview: Martin Pollak
Matt Sampson: The genetic architecture of nephrotic syndrome from rare to common variants
Corinne Antignac: New insights into Galloway-Mowat syndrome
Danny Gale: What genetic cohort studies reveal about glomerular disease

12.30-14.00 Lunch and Poster Session I

14.00-17.30 Plenary Session II: Cellular crosstalk and immune mediated glomerular disease

Basic: Cellular crosstalk-Discussion lead and overview: Stuart Shankland
Marcus Moeller: Functional roles of parietal epithelial cells
Becky Foster: Signals from the endothelium
Pierre-Louis Tharaux: Mechanisms of glomerular cell proliferation and migration

Break (30 mins)

Translation: Immune mediated glomerular disease- Discussion lead and overview: Pierre Ronco
Jonathan Barratt: IgA nephropathy- new mechanisms and management
Marina Noris: Targeting complement to treat glomerular disease

17.30-18.00 Keynote 1. Chair Peter Mathieson
Menna Clatworthy: Lessons from single cell RNA sequencing

Welcome Reception: Manchester Museum

Day 2 (Thur 8am-6pm)

08.00-0.8.45 Breakfast Session 1

0900-0930 Keynote 2. Chair Paul Brenchley
Martin Humphries: A systems approach to adhesion signalling

09.30-13.00 Plenary Session III: The cell-matrix interface and podocyte pathology

Basic: The cell-matrix interface- Discussion lead and overview: Jeff Miner
Nicole Endlich: Visualising podocyte-matrix interactions
Denise Marciano: Nephronectin and mesangial cell adhesion
Hani Suleiman: Basement membrane defects in transplant glomerulopathy

Break (30 mins)

Translation Podocyte pathology- Discussion lead and overview: Agnes Fogo
Ron Korstanje: Defining glomerular phenotypes with image analysis and machine learning
Thomas Benzing: The molecular pathogenesis of proteinuria

13.00-14.30 Lunch and Poster Session 2

14.30-18.00 Plenary Session IV: Experimental models and drug development

Basic: Disease models- Discussion lead and overview: Sue Quaggin
Benjamin Freedman: Modelling disease in kidney organoids
Mario Schiffer: Deciphering the role of CD2AP with mechanistic studies in zebrafish and drosophila
Break (30 mins)

Translation: Drug development- Discussion lead and overview: Andrey Shaw
Aliza Thompson: Drug development- a regulatory perspective
Matthew Breyer: Common drug targets in glomerular disease
Peter Mundel: Precision medicine for podocytopathy

Conference sport: 5K run/football/other

Conference dinner: The Principal Hotel

Day 3 (Fri 8am-6.30pm)

08.00-08.45 Breakfast Session 2

09.00-12.30 Plenary Session V: Systems biology and biomarkers

Basic: Systems biology- Discussion lead and overview: Katalin Susztak
Markus Rinschen: Metabolomic activity and its proteomic crosstalk
Matthias Kretzler: Molecular signatures for targeting patients to trials in glomerular disease
Ana Konvalinka: Microproteomics in transplant glomerulopathy

Break (30 mins)

Translation: Circulating factors and disease biomarkers- Discussion lead and overview: Moin Saleem
Joshua J. Zaritsky: LDL apheresis in nephrotic syndrome
Jochen Reiser: Strategies for targeting circulating factors

12.30-13.00 Keynote 3. Chair Elena Torban
Melissa Little: Human kidney organoids in perspective.

13.00-14.30 Lunch and Poster Session 3

14.30-18.00 Plenary Session VI: Metabolic pathways and drug targets in metabolic kidney disease

Basic: Metabolic pathways- Discussion lead and overview: Alessia Fornoni
Catherine Meyer-Schwesinger: Protein turnover in glomerular disease
Richard Coward: GSK3 as a critical regulator of podocyte function
Paul Brinkotter: The role of anaerobic glycolysis in glomerular barrier integrity

Break (30 mins)

Translation: Drug targets in metabolic kidney disease- Discussion lead and overview: Tobias Huber
Anna Greka: Small molecule therapy to reverse proteinopathy
Rama Natarajan: Metabolic memory in diabetic kidney disease

18.00-18.30 Final remarks and farewells

Speakers dinner: Chancellors

Preliminary patient-focused meeting outline (Sat 9am-6pm)

8:30-9:00 Breakfast/Registration

9:00-9:15 Welcome, agenda Overview (jointly with all)

9:15-10:15 Patient Introductions & Storytelling
10:15-10:30  NKI Community Expansion – setting the stage for community building in the UK and EU – *NephCure, NeST, NephcEurope, Alport UK, Alport Foundation, RADaR*

10:30-11:10  Nephrotic Syndrome Overview – Breaking Down the Diagnoses

11:10-11:40  *Break*

11:40-12:20  Learning Breakouts – (Physician Led)

**BREAKOUT #1**  Treatment Options & Care for Adults  **BREAKOUT #2**  Treatment Options & Care for Children

12:20-1:30  *Lunch*

1:30 – 2:15  The Current Research Landscape (opportunities and updates)

2:15-3:00  Panel Discussion – Nephrotic Syndrome Beyond the Meds, Adult Patient, Caregiver, Social Worker and Advocacy Resources OR Genetics & NS

3:00-3:20  *Break*

3:20-4:00  Nutrition for your kidneys

4:00-4:20  Building Community – Ways to get involved

4:20-4:35 pm  Evaluations & Closing Remarks