Inherited Kidney Disorders: An Update

An introductory/intermediate course focused on inherited kidney diseases

Learning objectives:
- To understand the basis of developmental and cystic kidney disorders
- To learn about recent epidemiology studies and clinical trials in polycystic kidney disease
- To get novel insights into inherited tubulointerstitial disorders and nephrotic syndrome
- To take advantage of case discussions and meetings with expert faculty to discuss the diagnosis and management of disorders affecting different nephron segments
- To get a primer and update on new genetic tools, proteomics, and model systems
- To learn about care from leading experts involved in specialized clinics, multi-disciplinary teams and transition clinics
- To meet experts and discuss practical questions related to the diagnosis and management of various inherited kidney disorders

Audience:
- Adult and pediatric nephrologists with interest in inherited kidney disorders
- Geneticists
- Trainees in nephrology, pediatrics, internal medicine, genetics
- PhD students
- Post-docs

Area: Basic science and clinical nephrology
Preliminary Program

Day 1: Thursday, September 13, 2012

11:00-11:15  Welcome, objectives of the course

Session I: Developmental and cystic kidney disorders

11:15-12:30  Developmental disorders of the kidney: an overview - Adrian Woolf, Manchester

Cystic kidney diseases of unknown origin: how to diagnose?
  • In childhood: Stéphane Decramer, Toulouse
  • In adulthood: Yves Pirson, Brussels

12:30-13:30  Lunch

13:30-15:00
  • ADPKD: How to build a cohort? Ron Gansevoort, Groningen
  • Postponing ESRD in ADPKD: which endpoints? Andreas Serra, Zürich
  • Polycystic liver disease: when to start with somatostatin analogs? Yves Pirson

15:00-15:30  Break

Session II: Inherited tubulointerstitial disorders

15:30-17:00
  • HNF-1 beta: its role in mouse kidney - Marco Pontoglio, Paris
  • HNF-1 beta: a multi-faceted disease - Dominique Chauveau or Stanislas Faguer, Toulouse
  • Uromodulin: its role in physiology and pathophysiology - Olivier Devuyst, Zurich

17:00-18:00  Meet the Faculty - parallel sessions

  • Cystic kidney disorders
  • Tubulopathies
  • Glomerulopathies
  (Case-based discussion, maximum 15-20 participants in each group)

Course dinner
Day 2: Friday, September 14, 2012

Session III: Inherited nephrotic syndrome

8:30-10:00

- From gene mutation to nephrotic syndrome – Marina Noris, Bergamo
- Inherited FSGS: when and how to diagnose?
  - In childhood - Francesco Emma, Rome
  - In adulthood - Aurélie Hummel, Paris

10:00-10:30 Break

Session IV: New tools for inherited kidney disorders

10:30-12:30 - Genetics, proteomics, models

Next generation sequencing- Nine Knoers, Nijmegen

Proteomics - Joost Schanstra, Toulouse

Animal models: lessons and limits - XXXX

GWAS : Insights and limitations - Anna Kottgen/ Carsten Böger, Freiburg/Regensburg

12:30-13:30 Lunch

Session V: Building a clinic for inherited nephropathies

13:30-15:00 Combined challenge for nephrologist and geneticist

Building a clinic: the Cambridge experience – Fiona Karet, Cambridge

Bridging genetics and nephrology – Roser Torra, Barcelona

Combined evaluation with geneticist, paediatrician and adult nephrologist - Christian Combe, Bordeaux

Referral Center for Inherited renal diseases: a fruitful tool for patients and science - Rémi Salomon, Paris

15:00-15:30 Break
15:30-16:30 - **Transition clinic: from teenagers to adults**

- Overview - *Franz Schaeffer, Heidelberg*
- Lessons from homocystinemia - *Pierre Cochat, Lyon*

16:30-17:15 **Meet the Faculty - parallel sessions**

- Building a specialized clinic
- New genetic tools
- Setting up a clinical trial

17:15 **Concluding remarks and close**