

Genomics for Dermatology 2018

**Wellcome Genome Campus
Hinxton, Cambridge, UK
19-21 November 2018**

The course will be held in the Rosalind Franklin Pavilion
Meals will be served in the Hall Restaurant unless stated otherwise
Refreshments will be served in the Conference Centre Forum

Monday, 19 November 2018

- 11:30-12:30 **Registration and Lunch**
Conference Centre Forum
- 12:30-12:45 **Welcome and Introduction**
Sara Brown, University of Dundee
- 12:45-14:45 **Session 1: Introduction to DNA and Genomics**
Chair: David Kelsell
- 12:45-13:45 Human genome and inheritance
Andrew Read
University of Manchester, UK
- 13:45-14:45 Gene expression and regulation / the transcriptome
Hans Hennies
University of Huddersfield, UK
- 14:45 – 15:15 **Afternoon Tea**
- 15:15 – 17:15 **Session 2: Genetic Variation**
Chair: David Kelsell
- 15:15 -16:15 Variation in the human genome
Sara Brown
University of Dundee, UK
- 16:15 -17:15 Identifying genetic variants that influence atopic dermatitis
Lavinia Paternoster
University of Bristol, UK
- 17:15-17:30 **Comfort Break**
- 17:30-18:30 **Keynote speaker – introduced by Edel O’Toole**
Epithelial stem cells in cell and gene therapy
Michele De Luca
University of Modena and Reggio Emilia, Italy

18:35 prompt **Dinner**
Hall Restaurant

18:30 **Cash Bar**
Conference Centre Forum

Tuesday, 20 November 2018

07:30-08:45 **Breakfast**
Hall Restaurant

09:00-11:00 **Session 3: Bioinformatics I**
Chair: Neil Rajan

09:00-11:00 Gaining biological insight from GWAS studies
Lavinia Paternoster
University of Bristol, UK

11:00-11:20 **Morning coffee**

11:20-13:20 **Session 4: Molecular mechanisms of Disease**
Chair: Neil Rajan

11:20-12:20 Lessons from single cell profiling of human skin
Muzlifah Haniffa
Newcastle University, UK

12:20-13:20 Utilising mutagenesis for clinical purposes
Serena Nik-Zainal
University of Cambridge, UK

13:20-14:45 **Lunch**

14:45-16:45 **Session 5: Bioinformatics 2 Pathways**
Chair: Edel O'Toole

14:45-15:45 Visualising transcriptomic data
Simon Cockell
Newcastle University, UK

15:45-16:45 From Big Data to Biology: Deciphering Differential Gene
Expression Data
Ryan O'Shaughnessy
Queen Mary University London, UK

16:45-17:15 **Afternoon Tea**

- 17:15-19:15 **Session 6: Phenotypes and genotypes**
Chair: Sara Brown
- 17:15 – 18:15 Genotypes and phenotypes in palmoplantar keratoderma
Edel O'Toole
Queen Mary University London, UK
- 18:15 – 19:15 Genetics of cutaneous mosaicism
Veronica Kinsler
University College London, UK
- 19:15-20:00 **Pre dinner drinks**
Hall Foyer
- 20:00 prompt **Course dinner**
Hall Restaurant
- 19:00 **Cash Bar**
Conference Centre Forum

Wednesday, 21 November 2018

- 07:30-08:45 **Breakfast**
Hall Restaurant
- 09:00-09:30 **Consolidation of Learning**
Sara Brown, University of Dundee, UK
Neil Rajan, Newcastle University, UK
- 09:30-11:30 **Session 7: Therapy**
Chair: Sara Brown
- 09:30-10:30 Genetic mechanisms applied to therapy developments in
psoriasis and eczema
Catherine Smith
King's College London, UK
- 10:30-11:30 Developing treatments for rare diseases
Neil Rajan
Newcastle University, UK
- 11:30-12:00 **Morning coffee**
- 12:00-14:00 **Session 8: Applying knowledge**
Chair: Neil Rajan
- 12:00-13:00 What have we learned about the pathophysiology of
vascular malformations?
Miikka Vikkula
de Duve Institute, University of Louvain, Belgium

13:00-14:00 Prospective European phase III clinical trial for slow-flow
vascular malformations (VASE)
Laurence Boon
University Clinics Saint Luc, University of Louvain, Belgium

14:00-14:15 **Closing Remarks – Neil Rajan**

14:15 **Grab Bag Lunch**

14:30 **Return shuttle Departs to Cambridge Train Station and City
Centre**