

**Genomics of Rare Disease 2018  
26-28 March 2018**

**Wellcome Genome Campus,  
Hinxton, Cambridge, UK**

**Draft Programme**

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**Monday 26 March 2018**

- 12:00-13:30      **Registration with lunch**
- 13:30-13:40      **Welcome and introductions**  
*Programme Committee: Helen Firth, Cambridge University Hospitals, UK*
- 13:40-14:40      **Lupski lecture:**  
**Generation of sequence diversity**  
*Kari Stefansson*  
*deCODE genetics, Iceland*
- 14:40-16:00      **Session 1: What's new in rare disease?**  
*Chair: Kym Boycott, Research Institute - Children's Hospital of Eastern Ontario, Canada*
- 14:40      NAD deficiency, congenital malformations and niacin supplementation  
*Sally Dunwoodie*  
*Victor Chang Cardiac Research Institute, Australia*
- 15:20      Speaker (from submitted abstracts)
- 16:00-16:40      **Afternoon tea**
- 16:40-17:10      **Session 1 continued:**  
*Chair: Kym Boycott, Research Institute - Children's Hospital of Eastern Ontario, Canada*
- 16:40      Short talk (from submitted abstracts)
- 16:55      Short talk (from submitted abstracts)
- 17:10-17:40      **Lightning talks for poster session 1**
- 17:40-19:15      **Poster session 1 (odd numbers) with drinks reception**
- 19:15              **Dinner**

## Tuesday 27 March 2018

09:00-10:50

### **Session 2: Lessons from large-scale WGS studies**

*Chair: Matt Hurles, Wellcome Sanger Institute, UK*

09:00 Lessons from the 100,000 Genomes Project Rare Disease Programme

*Richard Scott  
Genomics England, UK*

09:40 Insights from population-scale genome sequencing

*Ira Hall  
Washington University, USA*

10:20 Short talk (from submitted abstracts)

10.35 Short talk (from submitted abstracts)

10:50-11.30

### **Morning coffee**

11:30-13:00

### **Session 3: Data sharing - legal and ethical issues**

*Chair: Helen Firth, Cambridge University Hospitals, UK*

11:30 Genomic futures: who is liable for what and when?

*Bartha Maria Knoppers  
McGill University, Canada*

12:00 How is my genomic data mine? Private interests and proprietary rights

*Jonathan Montgomery  
University College London, UK*

12:30 Panel discussion

*Panel will include:  
Bartha Maria Knoppers  
McGill University, Canada*

*Jonathan Montgomery  
University College London, UK*

*Sobia Raza  
PHG Foundation, UK*

13:00-14:30

### **Lunch**

14.30-16:05

### **Session 4: Multiomic and single cell technologies**

*Chair: Jay Schendure, University of Washington, USA*

14:30 The power of ONE: Immunology in the age of single cell genomics

*Ido Amit  
Weizmann Institute of Science, Israel*

- 15:10 Polygenetics of congenital heart disease  
*Casey Gifford*  
*Gladstone Institutes, UCSF, USA*
- 15:50 Short talk (from submitted abstracts)
- 16:05-16:35 **Afternoon tea**
- 16:35-17:15 **Session 5: Informatics session**  
*Chair: Kaitlin Samocha, Wellcome Sanger Institute, UK*
- 16:35 Detecting and discovering pathogenic short tandem repeat expansions from short-read data  
*Harriet Dashnow*  
*Royal Children's Hospital, Australia*
- 17:15 Short talk (from submitted abstracts)
- 17:30 Short talk (from submitted abstracts)
- 17:45-18:15 **Lightning talks for poster session 2**
- 18:15-19:45 **Poster session 2 (even numbers) and drinks reception**
- 19:45 **Conference dinner**

### **Wednesday 28 March 2018**

- 08:30-10:20 **Session 6: Developmental genetics**  
*Chair: Han Brunner, Radboud University Medical Centre, The Netherlands*
- 08:30 Distant-acting enhancers in human disease: insights from mouse models  
*Axel Visel*  
*Lawrence Berkeley National Laboratory, USA*
- 09:10 Tridimensional analysis of human embryo development  
*Alain Chedotal*  
*Institut De La Vision, France*
- 09:50 Short talk (from submitted abstracts)
- 10:05 Short talk (from submitted abstracts)
- 10:20-11:00 **Morning coffee**
- 11:00-12:50 **Session 7: Model organisms and systems**  
*Chair: Matt Hurles, Wellcome Sanger Institute, UK*
- 11:00 Defects in *Drosophila* high-throughput habituation as an endophenotype of autism/intellectual disability disorders – of mechanisms and clinical applications  
*Annette Schenck*  
*Radboud University Medical Center, The Netherlands*

11:40 From bed to benchside: developmental and translational research for skeletal dysplasia  
*Valérie Cormier-Daire*  
*Imagine Institute, Necker Hospital, France*

12:20 Short talk (from submitted abstracts)

12:35 Short talk (from submitted abstracts)

12:50-14:10 **Lunch**

14:10-16:00 **Session 8:Therapy**

*Chair: Kym Boycott, Research Institute - Children's Hospital of Eastern Ontario, Canada*

14:10 Novel genetic therapies for neuromuscular disorders  
*Francesco Muntoni*  
*University College London, UK*

14:50 Achondroplasia: The journey from diagnosis to precision therapies: a template for rare genetic diseases  
*Ravi Savarirayan*  
*Murdoch Children's Research Institute, Australia*

15:30 Short talk (from submitted abstracts)

15.45 Short talk (from submitted abstracts)

16:00-16:10 **Closing remarks**

*Programme Committee: Han Brunner, Radboud University Medical Centre, The Netherlands*

16:20 **Coaches depart to Cambridge City Centre via Train Station, and Heathrow Airport via Stansted Airport**