

**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	<b>Registration with lunch</b>
13:30-13:40	<b>Welcome and introductions</b> <i>Programme Committee: Helen Firth</i>
13:40-14:40	<b>Lupski lecture:</b> <b>Generation of sequence diversity</b> <i>Kari Stefansson</i> <i>deCODE Genetics, Iceland</i>
14:40-16:00	<b>Session 1: What's new in rare disease?</b> <i>Chair: Kym Boycott</i>
	14:40 NAD deficiency, congenital malformations and niacin supplementation <i>Sally Dunwoodie</i> <i>UNSW Sydney, Australia</i>
	15:20 Short talk (from submitted abstracts)
16:00-16:40	<b>Afternoon tea</b>
16:40-17:10	<b>Session 1 continued:</b> <i>Chair: Kym Boycott</i>
	16:40 Short talk (from submitted abstracts)
	16:55 Short talk (from submitted abstracts)
17:10-17:40	<b>Lightning talks for poster session 1</b>
17:40-19:15	<b>Poster session 1 (odd numbers) with drinks reception</b>
19:15	<b>Dinner</b>

## Tuesday 27 March 2018

09:00-10:50

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

*Chair: Matt Hurles*

09:00 Lessons from the 100,000 genomes project rare disease programme  
*Richard Scott*  
*Genomics England and Queen Mary University of London, UK*

09:40 Insights from population-scale genome sequencing  
*Ira Hall*  
*Washington University School of Medicine, 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*

11:30 Genomic future: who is liable for what and when?  
*Bartha Maria Knopper*  
*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 with contributions from:  
*Bartha Maria Knopper*  
*McGill University, Canada*

*Jonathan Montgomery*  
*University College London, UK*

*Kathy Liddell*  
*Director Centre for Law, Medicine and Life Sciences,*  
*University of Cambridge, UK*

13:00-14:30

### **Lunch**

14.30-16:05

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

*Chair: Jay Schendure*

14:30 The power of ONE: Immunology in the age of single cell genomics  
*Ido Amit*  
*Weizmann Institute, Israel*

- 15:10 Polygenetics of congenital heart disease  
*Casey Gifford*  
*University of California, San Francisco, USA*
- 15:50 Short talk (from submitted abstracts)
- 16:05-16:35 **Afternoon tea**
- 16:35-17:15 **Session 5: Informatics session**  
*Chair: Kaitlin Samocho*
- 16:35 Detecting pathogenic short tandem repeat expansions from next generation sequencing data  
*Alicia Oshlack*  
*Murdoch Children's Research Institute, 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*
- 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*
- 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, Netherlands*
- 11:40 From bed to benchside: developmental and translational research for skeletal dysplasia  
*Valérie Cormier-Daire*  
*Université Paris Descartes, 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*
- 14:10 Novel genetic therapies for neuromuscular disorders  
*Francesco Muntoni*  
*Great Ormond Street Hospital, UK*
- 14:50 Achondroplasia, the journey from diagnosis to precision therapies and beyond: a template for rare genetic diseases  
*Ravi Savarirayan*  
*The Royal Children's Hospital, 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*
- 16:20 **Coaches depart to Cambridge City Centre via Train Station, and Heathrow Airport via Stansted Airport**