

**Agenda**

**Pre-course Introduction to genomics - genetics variation**

On-demand	20 min	Introduction to the human genome <i>Andrew Read, University of Manchester, UK</i>
On-demand	15 min	Gene expression and regulation - Analysis of the transcriptome <i>Hans Hennies, University of Huddersfield, UK</i>
On-demand	13 min	Variation in the human genome - extent and source of variation <i>Sara Brown, University of Edinburgh, UK</i>
On-demand	17 min	Variation in the human genome, part II - How can we make sense of this? <i>Sara Brown, University of Edinburgh, UK</i>

<b>Start (GMT)</b>	<b>Finish (GMT)</b>	<b>Presenter details</b>
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**Monday 28 November 2022**

<b>12:00</b>	<b>13:00</b>	<b>Registration, lunch and networking</b>
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12:30	12:45	Briefing for Committee, Speakers and Keynote for day 1
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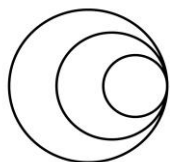
<b>13:00</b>	<b>13:15</b>	<b>Welcome</b>
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**Scientific Programme Committee:**  
[\*Sara Brown, University of Edinburgh, UK\*](#)  
[\*David Kelsell, Queen Mary University of London, UK\*](#)  
[\*Edel O'Toole, Queen Mary University of London, UK\*](#)  
[\*Neil Rajan, Newcastle University, UK\*](#)

<b>13:15</b>	<b>14:15</b>	<b>Student Introductions</b>
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<b>14:15</b>	<b>14:45</b>	<b>Quiz on pre-course material</b>
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14:45	15:00	Networking / Refreshment Break
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**15:00 16:25 Session 1: Epigenetics**

15:00 15:05 Introduction to the session

*Chair: Sara Brown, University of Edinburgh, UK*

15:05 15:45 Epigenetic mechanisms of transcriptional regulation

[\*Miquel Branco, Queen Mary University of London, UK\*](#)

15:45 16:25 Genetic effects on DNA methylation enables insights into the human genotype-phenotype map

[\*Josine Min, University of Bristol, UK\*](#)

16:25 16:45 Networking / Refreshment Break

**16:45 17:50 Keynote Speaker**

16:45 16:50 Introduction

*Chair: Edel O'Toole, Queen Mary University of London, UK*

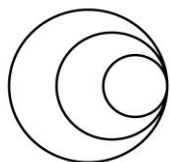
16:50 17:50 Genomics in translation: skin diseases as a case study

[\*Eli Sprecher, Tel Aviv Sourasky Medical Center, Israel\*](#)

17:50 18:35 Networking / Drinks Reception

**18:35 Dinner**

18:35 Bar Open (card payments only)



**Tuesday 29 November 2022**

08:45 09:00 Briefing for Committee & Speakers for day 2 (AM)

**09:00 10:05 Session 2: Diversity in genetics and genomics**

09:00 09:05 Introduction to the session  
*Chair: Neil Rajan, Newcastle University, UK*

09:05 10:05 Born in Bradford: advances in genetics  
[\*John Wright, Bradford Institute for Health Research - VIRTUAL\*](#)

10:05 10:15 Break

**10:15 12:20 Session 3: Developmental biology and cancer**

10:15 10:20 Introduction to the session  
*Chair: Edel O'Toole, Queen Mary University of London, UK*

10:20 11:20 Deciphering epithelial development and repair using live-imaging and genetics in model organisms  
[\*Helen Weavers, University of Bristol, UK\*](#)

11:20 12:20 The Genomic Atlas of Dermatopathology  
[\*David Adams, Wellcome Sanger Institute, UK\*](#)

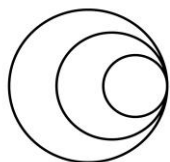
12:20 13:20 Lunch

**13:20 14:55 Session 4: Investigating putative functional genetic variants**

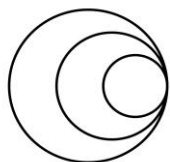
13:20 13:25 Introduction to the session  
*Chair: Sara Brown, University of Edinburgh, UK*

13:25 14:55 Workshop  
*Louisse Mirabueno, The Ensembl Outreach Team, EMBL-EBI, UK*

14:55 15:15 Networking / Refreshment Break



<b>15:15</b>	<b>18:20</b>	<b>Session 5: Cellular and molecular mechanisms of skin disease</b>
15:15	15:20	Introduction to the session <i>Chair: David Kelsell, Queen Mary University of London, UK</i>
15:20	16:20	Investigating gene regulatory networks in skin disease <a href="#"><u>Marta Polak, Janssen, USA</u></a>
16:20	17:00	The utility of spatial transcriptomics for exploring disease mechanisms in palmoplantar <a href="#"><u>Diana Blaydon, Queen Mary University of London, UK</u></a>
17:00	17:20	Comfort Break
17:20	18:20	Fibroblast heterogeneity in skin homeostasis and disease <a href="#"><u>Emanuel Rognoni, Queen Mary University of London, UK</u></a>
18:20	19:05	Networking / Drinks Reception
<b>19:05</b>		<b>Dinner</b>
19:05		Bar Open (card payments only)



**Wednesday 30 November 2022**

09:00 09:15 Briefing for Committee & Speakers for day 3

**09:30 11:35 Session 6: Therapeutic strategies in monogenic skin disease**

09:30 09:35 Introduction to the session

*Chair: Neil Rajan, Newcastle University, UK*

09:35 10:15 Pachyonychia congenita - mechanisms and new therapies

[Edel O'Toole, Queen Mary University of London, UK](#)

10:15 10:55 The future of gene editing in Epidermolysis Bullosa

[Joanna Jackow, Kings College London, UK](#)

10:55 11:35 Dysregulation of adhesion and communication in the keratodermas: common disease pathways?

[David Kelsell, Queen Mary University of London, UK](#)

11:35 12:05 Networking / refreshment Break

**12:05 12:35 Consolidation of learning and closing remarks**

12:05 12:35 **Scientific Programme Committee:**

[Sara Brown, University of Edinburgh, UK](#)

[David Kelsell, Queen Mary University of London, UK](#)

[Edel O'Toole, Queen Mary University of London, UK](#)

[Neil Rajan, Newcastle University, UK](#)

12:35 12:45 Grab bag lunch

12:45 Coach departs for Cambridge train station and city centre