

**Hybrid Conference Programme**

Start (GMT)	Finish (GMT)	Presenter details
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**Monday 25 March 2024**

<b>12:00</b>	<b>13:00</b>	<b>Registration, lunch and networking</b>
12:45	13:00	Briefing for Keynote & Session 1 speakers, microphone runners, chair, moderator & committee - Auditorium
<b>13:00</b>	<b>13:10</b>	<b>Welcome</b>
		<p><b>Scientific Programme Committee:</b>  <a href="#">Fowzan Alkuraya, King Faisal Specialist Hospital &amp; Research Centre, Saudi Arabia</a>  <a href="#">Anna Lindstrand, Karolinska Institute, Sweden</a>  <a href="#">Hilary Martin, Wellcome Sanger Institute, UK</a>  <a href="#">Jennifer Posey, Baylor College of Medicine, USA</a></p>
<b>13:10</b>	<b>14:10</b>	<b>Keynote lecture</b>
		<p>Chair: Jennifer Posey, Baylor College of Medicine  Moderator: Anna Lindstrand, Karolinska Institute, Sweden</p> <p>Towards interventional genetics  Timothy Yu, Boston Children's Hospital, USA</p>
<b>14:10</b>	<b>14:55</b>	<b>Session 1: What's new in rare disease?</b>
		<p>Chair: Anna Lindstrand, Karolinska Institute, Sweden  Moderator: Jennifer Posey, Baylor College of Medicine</p>
14:10	14:40	Undiagnosed disease programme in South Africa Shahida Moosa, Stellenbosch University, South Africa
14:40	14:55	Rare disease gene association discovery from burden analysis of the 100,000 Genomes Project data Valentina Cipriani, Queen Mary University of London, UK
14:55	15:40	Refreshment break and networking
15:25	15:40	Briefing for Session 1 speakers, microphone runners, chair, moderator & committee - Auditorium
<b>15:40</b>	<b>17:10</b>	<b>Session 1: What's new in rare disease continued</b>
		<p>Chair: Evan Eichler, University of Washington, USA  Moderator: Lisenka Vissers, Radboud University, Netherlands</p>
15:40	16:10	Positive selection in male germ cells and its impact on rare disorders Raheleh Rahbari, Wellcome Sanger Institute, UK
16:10	16:25	Harmonized framework for RNA-seq-based rare disease diagnostics in a pan-continental consortium - Solve-RD Vicente Yopez, Technical University of Munich, Germany
16:25	16:40	Structural variant allelic heterogeneity in MECP2 Duplication Syndrome provides insight into clinical severity and variability of disease expression Claudia Carvalho, Pacific Northwest Research Institute, USA
16:40	16:55	Using regional nonsense constraint for clinical and biological insights into rare genetic conditions Alexander Blakes, University of Manchester, UK
16:55	17:10	Identification of mitochondrial genome constraint in gnomAD provides new tools for variant classification Nicole Lake, Yale, USA
<b>17:10</b>	<b>17:35</b>	<b>Poster pitch talks for odd number posters</b>
		Chair: Hilary Martin, Wellcome Sanger Institute, UK
<b>17:35</b>	<b>19:00</b>	<b>Poster session 1 - odd number posters</b>
19:00	21:00	Dinner
		Bar open (card payments only)

**Tuesday 26 March 2024**

07:30	09:00	Breakfast
09:15	09:30	Briefing for Session 2 speakers, microphone runners, chair & moderator - Auditorium
<b>09:30</b>	<b>11:00</b>	<b>Session 2: Pangenome</b> <i>Chair: Lisenka Vissers, Radboud University, Netherlands</i> <i>Moderator: Jennifer Posey, Baylor College of Medicine</i>
09:30	10:00	Complex recurrent structural polymorphisms and susceptibility to genomic disorders <i>Evan Eichler, University of Washington, USA</i>
10:00	10:15	Mind the Reference Gap <i>Kristine Bilgrav Saether, Karolinska Institutet, Sweden</i>
10:15	10:30	Unveiling the Genetic Tapestry: Rare Diseases Among Georgia's Ethnic Azerbaijani Population <i>Tinatini Tkemaladze, Tbilisi State Medical University, Georgia</i>
10:30	11:00	Rare disease multi-omics and the Qatar Mendelian Program <i>Khalid Fakhro, Hamad Bin Khalifa University, Qatar</i>
11:00	11:45	Refreshment break and networking
11:30	11:45	Briefing for Session 3 speakers, microphone runners, chair & moderator - Auditorium
<b>11:45</b>	<b>13:15</b>	<b>Session 3: Genomic Screening</b> <i>Chair: Hilary Martin, Wellcome Sanger Institute, UK</i> <i>Moderator: Lisenka Vissers, Radboud University, Netherlands</i>
11:45	12:15	Outcome of publicly funded nationwide first-tier noninvasive prenatal screening <i>Joris Vermeesch, KU Leuven, Belgium</i>
12:15	12:30	Analytical validity of variant prioritisation algorithm in whole genome sequencing data for newborn screening in the Generation Study <i>Joanna Kaplanis, Genomics Engalnd Ltd, UK</i>
12:30	12:45	Predicting the severity of recessive ADSL deficiency with deep mutational scanning and biallelic pathogenicity scores <i>Hasan Çubuk, The University of Edinburgh, UK</i>
12:45	13:15	Genomic Sequencing as a First-Tier Screening Test and Outcomes of Newborn Screening <i>Ting Chen, Xinhua Hospital, Shanghai Jiaotong University School of Medicine, China</i>
13:15	14:30	Lunch and meet the speaker networking
14:15	14:30	Briefing for Session 4 speakers, microphone runners, chair & moderator - Auditorium
<b>14:30</b>	<b>16:00</b>	<b>Session 4: Blurring boundaries between common and rare disease</b> <i>Chair: Hilary Martin, Wellcome Sanger Institute, UK</i> <i>Moderator: Evan Eichler, University of Washington, USA</i>
14:30	15:00	Monogenic and polygenic stroke- not as distinct as we thought <i>Hugh Markus, Cambridge University, UK</i>
15:00	15:15	A genotype-first approach to interrogate the allelic series of variants in the calcium sensing receptor associated with autosomal dominant hypocalcemia type 1 <i>Sun-Gou Ji, BridgeBio Pharma Inc., USA</i>
15:15	15:30	Dissecting the contribution of common variants to risk of rare neurodevelopmental conditions <i>Qinqin Huang, Wellcome Sanger Institute, UK</i>
15:30	16:00	The shifting landscape of penetrance and expressivity in a world of biobanks, genomes and precision meds <i>Valerie Arboleda, UCLA, USA</i>
<b>16:00</b>	<b>16:30</b>	<b>Poster pitch talks for even number posters</b> <i>Chair: Jennifer Posey, Baylor College of Medicine</i>
<b>16:30</b>	<b>16:45</b>	<b>Sponsored talk</b>
16:30	16:45	Addressing barriers to inclusion in rare disease research <i>Hannah Stark, Operations Lead at the NIHR BioResource, UK</i>
<b>17:00</b>	<b>18:30</b>	<b>Poster session 2 - even number posters</b>
18:30	20:30	Dinner
		Bar open (card payments only)

**Wednesday 27 March 2024**

07:30	09:00	Breakfast
09:15	09:30	Briefing for Session 5 speakers, microphone runners, chair & moderator - Auditorium
<b>09:30</b>	<b>11:00</b>	<b>Session 5: Therapeutics</b>
		<i>Chair: Anna Lindstrand, Karolinska Institute, Sweden</i> <i>Moderator: Hilary Martin, Wellcome Sanger Institute, UK</i>
09:30	10:00	Advances in haemophilia A gene therapy <i>Johnny Mahlangu, University of the Witwatersrand, Johannesburg, South Africa</i>
10:00	10:15	First In Class ASO Targeting IGHMBP2 Cryptic Splice Variant: Efficacy and Safety <i>Sandra Smieszek, Vanda Pharmaceuticals, USA</i>
10:15	10:30	Genome-scale quantification and prediction of pathological stop codon readthrough by small molecules <i>Ignasi Toledano, IRB, Spain</i>
10:30	11:00	Transforming drug discovery using large-scale genomics <i>Keren Carss, Astra Zeneca, UK</i>
11:00	11:30	Refreshment break and networking
11:15	11:30	Briefing for Session 6 speakers, microphone runners, chair & moderator - Auditorium
<b>11:30</b>	<b>13:00</b>	<b>Session 6: Beyond the genome</b>
		<i>Chair: Anna Lindstrand, Karolinska Institute, Sweden</i> <i>Moderator: Hilary Martin, Wellcome Sanger Institute, UK</i>
11:30	12:00	RNA in Genomic Medicine <i>Diana Baralle, Southampton University, UK</i>
12:00	12:15	Full-length transcript atlas of the developing human cortex uncovers novel candidate diagnoses in developmental disorders <i>Kartik Chundru, University of Exeter, UK</i>
12:15	12:30	Using long read genomics to identify methylation outliers in rare disease <i>Tanner Jensen, Stanford University, USA</i>
12:30	13:00	From phenotype to AI-based phenomics <i>Lisenka Vissers, Radboud University, Netherlands</i>
<b>13:00</b>	<b>13:15</b>	<b>Closing remarks and prize presentation</b>
		<b>Scientific Programme Committee:</b> <a href="#">Fowzan Alkuraya, King Faisal Specialist Hospital &amp; Research Centre, Saudi Arabia</a> <a href="#">Anna Lindstrand, Karolinska Institute, Sweden</a> <a href="#">Hilary Martin, Wellcome Sanger Institute, UK</a> <a href="#">Jennifer Posey, Baylor College of Medicine, USA</a>
13:15	14:15	Lunch and departures
14:10		Coach departures for Stansted and Heathrow airports
14:20		Coach departures for Cambridge train station and city centre