

Hybrid conference programme

Start (BST)	Finish (BST)	Presenter details
<b>Monday 24 April 2023</b>		
12:00	13:00	<b>Registration, lunch and networking</b>
12:45	13:00	Briefing for Keynote & Session 1 speakers, microphone runners, chair, moderator & committee - Auditorium
13:00	13:10	<b>Welcome</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="#">Jennifer Posey, Baylor College of Medicine, USA</a> <a href="#">James Ware, Imperial College London, UK</a>
13:10	14:10	<b>Keynote 1 - Lupski lecture</b>  Chair: Fowzan Alkuraya, King Faisal Specialist Hospital & Research Centre, Saudi Arabia Moderator: Jennifer Posey, Baylor College of Medicine, USA  Exploring the noncoding genome with chromosomal structural rearrangements <a href="#">Cynthia Morton, Brigham and Women's Hospital, USA</a>
14:10	14:55	<b>Session 1: Gene regulation in rare disease</b>  Chair: Anna Lindstrand, Karolinska Institute, Sweden Moderator: James Ware, Imperial College London, UK
14:10	14:40	Shedding light on the dark matter of the genome to improve diagnostic yield in rare disease diagnostics <a href="#">Peter Robinson, The Jackson Laboratory, USA</a>
14:40	14:55	The role of start-stops elements in rare disease <a href="#">Nechama Wieder, University of Oxford, UK</a>
14:55	15:40	Refreshment break and networking
15:40	16:25	<b>Session 1 cont: Gene regulation in rare disease</b>  Chair: Anna Lindstrand, Karolinska Institute, Sweden Moderator: James Ware, Imperial College London, UK
15:40	16:10	Blurring the boundaries between rare and common diseases <a href="#">Alexandre Reymond, University of Lausanne, Switzerland</a>
16:10	16:25	Recalibrating differential gene expression analysis by variance in gene dosage: A novel method for prioritizing functionally relevant genes in rare diseases <a href="#">Philipp Rentzsch, SciLifeLab, Sweden</a>
16:25	17:00	<b>Poster pitch talks for poster session 1: odd numbers</b>  Chair: James Ware, Imperial College London, UK
17:00	17:15	<b>Sponsored talk by Oxford Nanopore</b>
17:20	18:30	<b>Poster session 1: odd numbers, with drinks reception sponsored by Oxford Nanopore</b>
18:30	20:30	Dinner
18:30	23:00	Bar open (card payments only)

Tuesday 25 April 2023		
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: Clinical applications</b> <i>Chair: Jennifer Posey, Baylor College of Medicine, USA</i> <i>Moderator: Fowzan Alkuraya, King Faisal Specialist Hospital &amp; Research Centre, Saudi Arabia</i>
09:30	10:00	Genomics of rare diseases in Latin America <a href="#">Claudia Gonzaga-Jauregui, International Laboratory for Human Genome Research, UNAM, Mexico</a>
10:00	10:30	Founder mutations in rare disease: a Middle Eastern experience <a href="#">Dana Marafi, Kuwait University, Kuwait</a>
10:30	10:45	More than a fancy exome: unique capabilities of genome sequencing for rare disease diagnosis <i>Gabrielle Lemire, Broad Institute of MIT and Harvard, USA</i>
10:45	11:00	Mendelian hunt gone awry: the diagnostic implications of pitfalls in causal variant identification based on 4,510 molecularly characterized families <i>Lama AlAbdi, King Faisal Specialist Hospital &amp; Research Centre, Saudi Arabia</i>
11:00	11:40	Refreshment break and networking
11:25	11:40	Briefing for Session 3 speakers, microphone runners, chair & moderator - Auditorium
<b>11:40</b>	<b>13:10</b>	<b>Session 3: Translational genomics</b> <i>Chair: James Ware, Imperial College London, UK</i> <i>Moderator: Anna Lindstrand, Karolinska Institute, Sweden</i>
11:40	12:10	Making use of population datasets in variant interpretation <a href="#">Kaitlin Samocha, Massachusetts General Hospital, USA</a>
12:10	12:40	Brain organoid modeling of neurogenetic disorders uncovers defective cilia dynamics as a significant underlying mechanism <a href="#">Jay Gopalakrishnan, Heinrich Heine University Düsseldorf, Germany</a>
12:40	12:55	Refining the pathogenicity of rare variants in monogenic obesity genes using large-scale population data: Implications for genomic medicine <i>Nathalie Charni, Mount Sinai Hospital, USA</i>
12:55	13:10	Strategic identification of pathogenic variant carriers from tumour-only sequencing: analysis of 49,264 cancer patients <i>Zeid Kuzbari, Institute of Cancer Research, UK</i>
13:10	14:20	Lunch and networking
14:05	14:20	Briefing for Session 4 speakers, microphone runners, chair & moderator - Auditorium
<b>14:20</b>	<b>15:50</b>	<b>Session 4: Public health, prevention and policy</b> <i>Chair: Fowzan Alkuraya, King Faisal Specialist Hospital &amp; Research Centre, Saudi Arabia</i> <i>Moderator: Jennifer Posey, Baylor College of Medicine, USA</i>
14:20	14:50	Preventing rare disease - Mackenzie's Mission, the Australian reproductive carrier screening project <a href="#">Nigel Laing, Harry Perkins Institute of Medical Research, Australia</a>
14:50	15:20	Preconception carrier screening for rare diseases <a href="#">Lidewij Henneman, Amsterdam UMC, the Netherlands</a>
15:20	15:35	Three years' experience of BeGECS at the Center for Medical Genetics Ghent: results from 400 couples <i>Hannah Verdin, Ghent University, Belgium</i>
15:35	15:50	Genetic variations in cardiac channelopathy disorders in the Indian population: implications for public health and screening strategies <i>Anjali Bajaj, CSIR-Institute of Genomics and Integrative Biology, India</i>
15:50	16:20	Refreshment break and networking
<b>16:20</b>	<b>17:20</b>	<b>Keynote 2</b> <i>Chair: Anna Lindstrand, Karolinska Institute, Sweden</i> <i>Moderator: Jennifer Posey, Baylor College of Medicine, USA</i>  Base editing and prime editing: correcting mutations that cause genetic disease in cells, animals, and patients <a href="#">David Liu, The Broad Institute, Harvard University, USA</a>
<b>17:20</b>	<b>17:50</b>	<b>Poster pitch talks for poster session 2: even numbers</b> <i>Chair: Jennifer Posey, Baylor College of Medicine, USA</i>
<b>17:50</b>	<b>19:00</b>	<b>Poster session 2: even numbers, with drinks reception</b>
19:00	21:00	Dinner
19:00	23:00	Bar open (card payments only)

Wednesday 26 April 2023		
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: New technologies</b>
		<i>Chair: James Ware, Imperial College London, UK</i> <i>Moderator: Jennifer Posey, Baylor College of Medicine, USA</i>
09:30	10:00	The potential of long-read sequencing in rare disease <a href="#">Danny Miller, University of Washington, USA</a>
10:00	10:30	Towards better understanding of atypical diabetes using human pluripotent stem cell technology <a href="#">Gosia Borowiak, Institute of Molecular Biology &amp; Biotechnology, Faculty of Biology, Poland</a>
10:30	10:45	Deep mutational scanning improves functional variant interpretation in enzymes associated with rare diseases <i>Kaiyue Ma, Yale University, USA</i>
10:45	11:00	Long-read sequencing and optical genome mapping enable full characterization of previously unresolved structural variation <i>Griet De Clercq Ghent University, Belgium</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: Genomics and multi-omics</b>
		<i>Chair: Jennifer Posey, Baylor College of Medicine, USA</i> <i>Moderator: Anna Lindstrand, Karolinska Institute, Sweden</i>
11:30	12:00	Multi-omic approaches to dissect mitochondrial pathology <a href="#">Robert Taylor, Newcastle University, UK</a>
12:00	12:15	Deciphering transposable elements by short- and long read sequencing <i>Kristine Bilgrav Saether, Karolinska Institutet, Sweden</i>
12:15	12:30	Systematic assessment of polygenic score associations in a large-scale, phenotypically diverse pediatric rare disease cohort <i>Craig Smail, Children's Mercy Hospital, USA</i>
12:30	13:00	Genetic effects on gene dosage affect cellular phenotypes and disease risk <a href="#">Tuuli Lappalainen, KTH Royal Institute of Technology, Sweden</a>
<b>13:00</b>	<b>13:10</b>	<b>Closing remarks and poster 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="#">Jennifer Posey, Baylor College of Medicine, USA</a> <a href="#">James Ware, Imperial College London, UK</a>
13:10	14:00	Lunch and departures
14:00		Coach departures for Stansted and Heathrow airports
14:10		Coach departures for Cambridge train station and city centre