Tuesday 16	th July 2024	- LT1 (Afternoon)	
		,	Presentation Details
	Finish (GMT)		Presentation Details
12:00		Registration, Lunch and Networking	
13:30		Keynotes	Chair: Nick Loman, University of Bristol
13:30		Lucy Burkitt-Gray (UK Biobank)	Massive-scale whole genome sequencing: Insights from the UK Biobank
14:00	14:30	Richard Durbin (University of Cambridge)	Insights from high quality genome sequencing across the tree of life
14:30	16:00	Evolving Technologies 1	Chair: Michael Quail, Wellcome Sanger Institute
14:30	15:00	Shawn Levy (Element)	TBD
15:00		Jason Betley (Illumina)	Illumina Technical and Product Roadmap Update
15:30		Neil Ward (PacBio)	Platinum Genomes
16:00		Coffee Break	Hadiliani denomes
16:30		Evolving Technologies 2	Chair: Michael Quail, Wellcome Sanger Institute
16:30		Andy Larrea (Ultima)	Ultima Genomics UG100: A flexible, low-cost, scalable sequencing solution
17:00	17:30	Graham Hall (Oxford Nanopore)	ONT Technology Update
17:30	18:00	Nicola Cahill (10x Genomics)	The application of single cell & spatial technologies to study the tumor microenvironment
18:00	19:30	Drinks Reception and Poster Session 1	
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	Finish (GMT)	2 "	
08:30	09:30	Coffee and Pastries	
arallel Ses	sion A - LT2		
	Finish (GMT)	Presenter	Presentation Details
09:30		Plant and Animal Genomics	Chair: Al Darby, University of Liverpool
09:30		Alex Cagan (University of Cambridge)	Somatic evolution across the tree of life
09:55		Gary Barker (University of Bristol)	Unlocking hidden genetic diversity in hexaploid bread wheat
10:20	10:35	Francisco Rodriguez-Algarra (Queen Mary, University of	Ribosomal DNA Copy Number Variation Associates with Hematological Profiles and Renal
		London)	Function in the UK Biobank
10:35	10:50	Carla Canedo-Ribeiro (University of Kent)	New method to detect chromosomal reciprocal translocations using long-read sequencing
10:50	11:00	Silver Sponsor Talk	New England Biolabs: UltraExpress™: Streamlined library prep for RNA and DNA samples fro
			New England Biolabs
11:00	11:30	Coffee Break	
11:30	13:05	Human & Clinical Genomics	Chair: Jonathan Coxhead, Newcastle University
11:30	11:55	Sandi Deans (University of Edinburgh)	Ensuring a high quality NGS clinical service
11:55		Mike Hubank (Institute of Cancer Research, London)	Circulating tumour DNA diagnostics in the NHS
12:20		Steven Hair (Newcastle University)	Utilising long-read sequencing approaches to detect structural variants of clinical significance
12.20	12.55	Steven Hall (Newcastle Offiversity)	childhood cancer
12:35	12.50	Ania Piskorz (CRUK Cambridge Institute, University of	Unlocking the potential of FFPE cancer specimens in predicting response and effect of cytoto.
12.55	12.50	Cambridge)	therapy
12:50	13:05	Nicholas Timpson (University of Bristol)	Exome Sequencing of UK Birth Cohorts
			Exome Sequencing of ok Birth Conorts
13:05		Photo, Lunch and Poster Session II	
14:00		Epigenetics/Human & Clinical Genomics	Chair: Ania Piskorz, CRUK Cambridge Institute University of Cambridge
14:00		Areeba Patel (University of Heidelberg)	Methylation based classification of diagnostically relevant tumour classes
14:25	14:50	Alex de Mendoza (Queen Mary University of London)	Early Origins of Eukaryotic DNA Methylation Pathways
14:50	15:05	Hannah Trivett (University of Liverpool)	Clinical metagenomics can resolve pathogens to strain-level identification direct from stool
15:05	15:20	Aimee Hanson (University of Bristol)	Considering confounding in rare variant genome wide association studies
15:20	15:30	Silver Sponsor Talk	Pacific Biosciences
15:30		Coffee Break	
16:00		Bioinformatics & Machine Learning in Genomics	Chair: Matt Loose, University of Nottingham
16:00		Rhydian Windsor (Oxford Nanopore)	Generative Modelling of Nanopore Signals
			0 1 0
16:25		Leonid Chindelevitch (Imperial College London)	Insights into AMR from large-scale genotypic and phenotypic data analysis
40 =-			Pangenome variation graph analysis reveals insights into livestock poxviruses
16:50		Tim Downing (Pirbright Institute)	Advantage of the complete of the control of the con
17:05	17:20	Rory Munro (University of Nottingham)	Adaptive Sampling on PromethION: Soaring Close to the Sun with Icarust and Readfish
	17:20		Adaptive Sampling on PromethION: Soaring Close to the Sun with Icarust and Readfish Opentrons: Accessible, touch-screen enabled automation for hands-off NGS library preparation
17:05	17:20	Rory Munro (University of Nottingham)	
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Parallel Ses	sion B - LT2		
	Finish (GMT)	Presenter	Presentation Details
09:30		Evolutionary Genomics I	Chair: Jordi Paps Montserrat (University of Bristol)
09:30		Peter WH Holland (University of Oxford)	Darwin Tree of Life project: Evolutionary applications
09:55		Filipe Castro (CIIMAR/FCUP)	A Domino Effect? Of loss, duplication and novelty in a transition to the sea
10:10		Marta Farré-Belmonte (Kent)	The role of 3D chromosome folding in mammalian genome evolution
10:25		Tom Jenkins (Exeter)	Plastic versus adaptive responses to climate in barbastelle bats
10:40		Gold Sponsor Talk	Element Biosciences
11:00		Coffee Break	Element brosseries
11:30		Microbes and Microbiomes I	Chair: Kata Bakar University of Cambridge
11:30		Alexandre Almeida (University of Cambridge)	Chair: Kate Baker, University of Cambridge
11:55		Lauren Cowley (University of Bath)	Meta-analysis of the uncultured gut microbiome reveals a novel keystone biomarker of health Using phylogeographical signal of Salmonella enterica serovar Enteritidis to train a hierarchical machine learning model to rapidly predict source attribution
12:20	12:35	Winnie Lee (Imperial College London)	Genomic population study of bloodstream Klebsiella spp. in 2020 in Southwest, UK
12:35		Eleanor Hayles (Quadram Institute, Norwich)	Genomic Epidemiology of SARS-CoV-2 in Norfolk, UK, March 2020- December 2022
12:50		Silver Sponsor Talk	Oxford Nanopore
13:00		Lunch and Poster Session II	Oxford Nanopore
			Chair Night annual University of Dissolve have
14:00		Microbes and Microbiomes II	Chair: Nick Loman, University of Birmingham
14:00		Alan Walker (University of Aberdeen)	Questioning the foetal microbiome illustrates pitfalls of low-biomass microbial studies
14:25		Edward Cunningham-Oakes (University of Liverpool)	TBC
14:50		Alice Nisbett (Quadram Institute, Norwich)	The genomic switcheroo: characterising genome rearrangements within typhoidal infections
15:05		Kirsty Sands (University of Oxford)	Providencia in the fly microbiome acting as a reservoir of blaNDM carriage: A threat in the dissemination of antimicrobial resistance and infection?
15:20		Steven Rudder (Quadram Institute, Norwich)	Genomic diversity of non-typhoidal Salmonella found within patients suffering from gastroenteritis in Norfolk, UK
15:35	16:00	Coffee Break	
16:00		Evolutionary Genomics II	Chair: Sion Bayliss, University of Bristol
16:00	16:25	Sandra Álvarez Carretero (University College London)	Bayesian methods to infer evolutionary timelines when deep divergences are present and largenomic datasets used
16:25	16:50	Jialin Wei (Bristol)	Convergent Genome Evolution In The Conquest Of Land By Animals
16:50		Chris Clarkson (QMUL/UCL)	Characterising structural variation in known pathogenic STRs across genetic ancestries, germ- instability events and diseased cohorts
17:05	17:20	Sarah Quigley (Kent)	Investigating mechanisms of genomic rearrangement in the human genome
		stol Harbour Hotel, The Sanisovo Room, Weds	s 17th [TICKETED]
Start (GMT)	Finish (GMT)	Event	5 17th [TICKETED]
	Finish (GMT) 19:30		s 17th [TICKETED]
Start (GMT) 18:30 19:30	Finish (GMT) 19:30 00:00	Event Arrival Drinks Banquetting Menu Dinner	s 17th [TICKETED]
18:30 19:30 19:30	Finish (GMT) 19:30 00:00 8th July 202	Event Arrival Drinks Banquetting Menu Dinner 4 - LT1 (Morning)	
18:30 19:30 19:30	Finish (GMT) 19:30 00:00	Event Arrival Drinks Banquetting Menu Dinner 4 - LT1 (Morning)	5 17th [TICKETED] Presentation Details
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Thursday 1 (GMT) (18:30 (19:30 (Fhursday 1 (GMT) (08:30 (09:30 (09:30	Finish (GMT) 19:30 00:00 8th July 202 Finish (GMT) 09:30 11:05 09:55	Event Arrival Drinks Banquetting Menu Dinner 4 - LT1 (Morning) Presenter Coffee and Pastries Single Cell Genomics Jimmy Lee (Wellcome Trust, Sanger)	Presentation Details Chair: Lia Chappell, University of Cambridge Shared molecular vulnerabilities of human cortical neurons in C9ORF72 Amyotrophic Lateral Sclerosis Study transposable elements at single molecule level in single cells to understand their role in
Thursday 1 Start (GMT) 18:30 19:30 Thursday 1 Start (GMT) 08:30 09:30 09:55 10:20	Finish (GMT) 19:30 00:00 8th July 202 Finish (GMT) 09:30 11:05 09:55 10:20	Event Arrival Drinks Banquetting Menu Dinner 4 - LT1 (Morning) Presenter Coffee and Pastries Single Cell Genomics Jimmy Lee (Wellcome Trust, Sanger) Rebecca Berrens (University of Oxford)	Presentation Details Chair: Lia Chappell, University of Cambridge Shared molecular vulnerabilities of human cortical neurons in C9ORF72 Amyotrophic Lateral Sclerosis Study transposable elements at single molecule level in single cells to understand their role in gene regulation.
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Thursday 1 Start (GMT) 18:30 19:30 Thursday 1 Start (GMT) 08:30 09:30 09:55 10:20 10:35 10:50	Finish (GMT) 19:30 00:00 8th July 202 Finish (GMT) 09:30 11:05 10:20 10:35 10:50 11:00	Event Arrival Drinks Banquetting Menu Dinner 4 - LT1 (Morning) Presenter Coffee and Pastries Single Cell Genomics Jimmy Lee (Wellcome Trust, Sanger) Rebecca Berrens (University of Oxford) Christos Proukakis (UCL) Simon Cockell (Newcastle University) Silver Sponsor Talk	Presentation Details Chair: Lia Chappell, University of Cambridge Shared molecular vulnerabilities of human cortical neurons in C9ORF72 Amyotrophic Lateral Sclerosis Study transposable elements at single molecule level in single cells to understand their role in gene regulation. The somatic CNV landscape of the Parkinson's disease brain at single cell resolution
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