Tuesday 16th July 2024 - LT1 (Afternoon)			
Start (GMT)	Finish (GMT)	Presenter	Presentation Details
12:00	13:30	Registration, Lunch and Networking	
13:30	**14:30**	**Keynotes**	**Chair: Nick Loman, University of Bristol**
13:30	14:00	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)	Circulating tumour DNA diagnostics in the NHS
15:00	15:30	Jason Betley (Illumina)	Illumina Technical and Product Roadmap Update
15:30	16:00	Neil Ward (PacBio)	TBD
16:00	16:30	Coffee Break	
16:30	**18:00**	**Evolving Technologies 2**	**Chair: Michael Quail, Wellcome Sanger Institute**
16:30	17:00	Andy Larrea (Ultima)	Ultima Genomics UG100: A flexible, low-cost, scalable sequencing solution
17:00	17:30	Graham Hall (Oxford Nanopore)	TBD
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	

Wednesday 17th July 2024			
Start (GMT)	Finish (GMT)		
08:30	09:30	Coffee and Pastries	

Parallel Session A - LT2			
Start (GMT)	Finish (GMT)	Presenter	Presentation Details
09:30	**11:00**	**Plant and Animal Genomics**	**Chair: Al Darby, University of Liverpool**
09:30	09:55	Alex Cagan (University of Cambridge)	TBC
09:55	10:20	Gary Barker (University of Bristol)	Unlocking hidden genetic diversity in hexaploid bread wheat
10:20	10:35	Francisco Rodriguez-Algarra (Queen Mary, University of London)	Ribosomal DNA Copy Number Variation Associates with Hematological Profiles and Renal 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 from 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	12:20	Mike Hubank (Institute of Cancer Research, London)	TBC
12:20	12:35	Steven Hair (Newcastle University)	Utilising long-read sequencing approaches to detect structural variants of clinical significance in childhood cancer
12:35	12:50	Ania Piskorz (CRUK Cambridge Institute, University of Cambridge)	Unlocking the potential of FFPE cancer specimens in predicting response and effect of cytotoxic therapy
12:50	13:05	Nicholas Timpson (University of Bristol)	Exome Sequencing of UK Birth Cohorts
13:05	14:00	Photo, Lunch and Poster Session II	
14:00	**15:30**	**Epigenetics/Human & Clinical Genomics**	**Chair: Ania Piskorz, CRUK Cambridge Institute University of Cambridge**
14:00	14:25	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	16:00	Coffee Break	
16:00	**17:30**	**Bioinformatics & Machine Learning in Genomics**	**Chair: Matt Loose, University of Nottingham**
16:00	16:25	Rhydian Windsor (Oxford Nanopore)	Generative Modelling of Nanopore Signals
16:25	16:50	Leonid Chindelevitch (Imperial College London)	Insights into AMR from large-scale genotypic and phenotypic data analysis
16:50	17:05	Tim Downing (Pirbright Institute)	Pangenome variation graph analysis reveals insights into livestock poxviruses
17:05	17:20	Rory Munro (University of Nottingham)	Adaptive Sampling on PromethION: Soaring Close to the Sun with Icarust and Readfish
17:20	17:30	Silver Sponsor Talk	Opentrons

Parallel Session B - LT2			
Start (GMT)	Finish (GMT)	Presenter	Presentation Details
09:30	**11:05**	**Evolutionary Genomics I**	**Chair: Jordi Paps Montserrat (University of Bristol)**
09:30	09:55	Peter WH Holland (University of Oxford)	Darwin Tree of Life project: Evolutionary applications
09:55	10:10	Filipe Castro (CIIMAR/FCUP)	A Domino Effect? Of loss, duplication and novelty in a transition to the sea
10:10	10:35	Marta Farré-Belmonte (Kent)	The role of 3D chromosome folding in mammalian genome evolution
10:25	10:40	Tom Jenkins (Exeter)	Plastic versus adaptive responses to climate in barbastelle bats
10:40	11:00	Gold Sponsor Talk	Element Biosciences
11:00	11:30	Coffee Break	
11:30	**13:00**	**Microbes and Microbiomes I**	**Chair: Kate Baker, University of Cambridge**
11:30	11:55	Alexandre Almeida (University of Cambridge)	TBC
11:55	12:20	Lauren Cowley (University of Bath)	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	12:50	Eleanor Hayles (Quadram Institute, Norwich)	Genomic Epidemiology of SARS-CoV-2 in Norfolk, UK, March 2020- December 2022
12:50	13:00	Silver Sponsor Talk	Oxford Nanopore
13:00	14:00	Lunch and Poster Session II	
14:00	**15:35**	**Microbes and Microbiomes II**	**Chair: Nick Loman, University of Birmingham**
14:00	14:25	Alan Walker (University of Aberdeen)	Questioning the foetal microbiome illustrates pitfalls of low-biomass microbial studies
14:25	14:50	Edward Cunningham-Oakes (University of Liverpool)	**TBC**
14:50	15:05	Alice Nisbett (Quadram Institute, Norwich)	The genomic switcheroo: characterising genome rearrangements within typhoidal infections
15:05	15:20	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	15:35	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	**17:35**	**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 large genomic datasets used
16:25	16:50	Jialin Wei (Bristol)	Convergent Genome Evolution In The Conquest Of Land By Animals
16:50	17:05	Chris Clarkson (QMUL/UCL)	Characterising structural variation in known pathogenic STRs across genetic ancestries, germ-line instability events and diseased cohorts
17:05	17:20	Sarah Quigley (Kent)	Investigating mechanisms of genomic rearrangement in the human genome

Conference Dinner - Bristol Harbour Hotel, The Sanisovo Room, Weds 17th [TICKETED]			
Start (GMT)	Finish (GMT)	Event	
18:30	19:30	Arrival Drinks	
19:30	00:00	Banquetting Menu Dinner	

Thursday 18th July 2024 - LT1 (Morning)			
Start (GMT)	Finish (GMT)	Presenter	Presentation Details
08:30	09:30	Coffee and Pastries	
09:30	**11:05**	**Single Cell Genomics**	**Chair: Lia Chappell, University of Cambridge**
09:30	09:55	Jimmy Lee (Wellcome Trust, Sanger)	Shared molecular vulnerabilities of human cortical neurons in C9ORF72 Amyotrophic Lateral Sclerosis
09:55	10:20	Rebecca Berrens (University of Oxford)	Study transposable elements at single molecule level in single cells to understand their role in gene regulation.
10:20	10:35	Christos Proukakis (UCL)	The somatic CNV landscape of the Parkinson's disease brain at single cell resolution
10:35	10:50	Simon Cockell (Newcastle University)	Geographically weighted methods for spatial transcriptomics data analysis
10:50	11:00	Silver Sponsor Talk	Parse Biosciences: Smash the Limits of Single Cell Sequencing with Parse Biosciences
11:00	11:30	Coffee Break	
11:30	**12:30**	**Keynotes**	**Chair: Michael Quail, Wellcome Sanger Institute**
11:30	12:00	Deborah Williamson (UK Health Security Agency)	TBD
12:00	12:30	Matt Brown (Genomics England)	Improving Diagnostic Rates for Rare Diseases – the Genomics England program
12:30	THE END	Lunch and leaving	