The Festival of Genomics & Biodata • Day 1 Agenda • 28th January 2026

Opening Remarks

The Future Is Genomics and Its Impact Will Be Felt Across Healthcare Worldwide

Professor Dermot Kelleher, Vice-Principal for Research, Imperial College London, UK

Prof. Sir Mark Walport, Chair, Genomics England

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PANEL DISCUSSION: The Road Ahead for Genomics: Scale, Equity, Sustainability and Trust

Professor Dermot Kelleher, Vice-Principal for Research, Imperial College London, UK

Richard Martin, Chief Executive Officer, Genomics England

Sandra Ortega, Chief Executive Officer, Genomics England

NETWORKING BREAK

	PAN-OF-STAGE	BIODATA STAGE	SINGLE-CELL STAGE	SPATIAL STAGE	CANCER DIAGNOSTICS	MULTI-OMICS INTEGRATION STAGE	PROTEOGENOMICS & TRANSLATIONAL OMICS STAGE	AI IN DRUG DISCOVERY STAGE	PRECISION MEDICINE & PATIENT STRATIFICATION STAGE	BACTERIAL BIODATA AND DATA STAGE	EPIGENETICS STAGE	SOCIAL GENOMICS STAGE	GENOMIC MEDICINE STAGE	ADVANCED THERAPIES STAGE	WOMEN & CHILDREN'S HEALTH STAGE	AI IN HEALTHCARE TRANSFORMATION STAGE	WORK SHOP ROOM GALLERY ROOM NG10	GENOME DOME
10:00	Nanopore Sequencing in Underserved and Diagnosis-Rich Settings Matt Loose Professor University of Nottingham	Unlocking AMR Mechanisms using Proteins Hayden Ingram Postdoctoral Fellow UK Biobank	Decoding Immune Loss in the Gut Spur Cancer Luca Pinzuti Antonio Research Associate Earlham Institute	Spatial Profiling of Tumor Ecosystems: Are We Measured Where Disease Starts? Alexandra Sharpless Associate Professor Karolinska Institutet	Utilising Liquid Biopsy for Diagnosis and Surveillance of MRD in Solid Tumors Sarah Blythe Director, Molecular Diagnostics and Genomics Laboratory University of Edinburgh	Decoding Biology at the Proteome to Drive Precision Medicine Nicolas Bery Senior Director of Computational Biology Genomics England	High-Throughput Functional Phenotyping Reveals Pathogenic Variants in Rare Disease Agnieszka Rybchyn Senior Lecturer Imperial Street Sciences UK Biobank	Decoding AI-Driven Discovery in the Human Genome Ivan Gesteira Costa Filho Head of Machine Learning Genomics England	Learning Fast Functional Lessons in Regulatory Genomics and Immune Disease Ivan Gesteira Costa Filho Head of Machine Learning Genomics England	Unravelling Host Susceptibility to Infectious Disease Sarah Dunstan Chief of Infectious Diseases University of Oxford	Unravelling Host Susceptibility to Infectious Disease Sarah Dunstan Chief of Infectious Diseases University of Oxford	The Impact of Genomics on Early Rapid Pharmacist Decision Supporting Sharon Lynn Wilson Director, Genomics Medicine NHS Lanarkshire and Clinical Research Initiative of NHS Scotland	Illumina's Ultra Rapid Genome Sequencing Jonathan Lewis Director of Genomics and Implementation Illumina Research UK	24 Hour Genomics Dr Ruth Gilbert Professor of Clinical Epidemiology UCL Great Ormond Street Institute of Child Health	WORKSHOP Developing Trust in Genomics Jo Morris Senior Lecturer Newcastle upon Tyne and University	GENOME DOME
10:20	Phase detailed in the announced activity Sponsored by Illumina	Phase detailed in the announced activity Sponsored by Illumina	Phase detailed in the announced activity Sponsored by Illumina	Decoding Immune Ecosystems in Cancer Lucia Pagnotta Gaiotto Senior Lecturer Sponsored by Illumina Cambridge	Phase detailed in the announced activity Sponsored by Illumina	Phase detailed in the announced activity Sponsored by Illumina	Phase detailed in the announced activity Sponsored by Illumina	Phase detailed in the announced activity Sponsored by Illumina	Sponsored slot available Sponsored by Illumina	Sponsored slot available Sponsored by Illumina	Sponsored slot available Sponsored by Illumina	The Rare Genomics Stage will explore how genomics is reshaping healthcare beyond the lab Phase detailed in the announced activity	The NHS Genomics are still miles from a Rosington all of May ? Phase detailed in the announced activity	Sponsored slot available Sponsored by Illumina	Sponsored slot available Sponsored by Illumina	Phase detailed in the announced activity Sponsored by Illumina	DISCUSSION SESSION Sharing Knowledge Within Large-scale Genomic Initiatives Jeanette Pinto Senior Lecturer Queen Mary University of London
10:40	PANEL DISCUSSION: From Pilots to Practice: Lessons from Genomic Medicine Implementation Frontiers, Big Lessons Dr Ruth Gilbert Professor of Clinical Epidemiology UCL Great Ormond Street Institute of Child Health Anna Lindemann Senior Lecturer Karolinska University Hospital Christopher Watson Associate Professor of Medical Genetics University of Cambridge	PANEL DISCUSSION: Scaling Microbial Genomics: Lessons from Antimicrobial Resistance Surveillance Nathalie Stamm Senior Lecturer Pharmaceutical Microbiology Anna Jonsson Senior Lecturer Karolinska University Hospital Maria Pachkova Senior Data Scientist Genomics England Nicola Stokes Senior Research Director GSK	Therapies Are Arriving Many Years Prior to Diagnosis: Lessons from Neurodegenerative Disease Dr Ruth Chiquet Senior Lecturer Imperial College London Dr Ruth Chiquet Senior Lecturer Imperial College London Dr Ruth Chiquet Senior Lecturer Imperial College London	Decoding Immune Ecosystems in Cancer Lucia Pagnotta Gaiotto Senior Lecturer Sponsored by Illumina Cambridge	Phase detailed in the announced activity Sponsored by Illumina	Phase detailed in the announced activity Sponsored by Illumina	Phase detailed in the announced activity Sponsored by Illumina	Market Signals, Barbed Outputs: High-throughput Functional Genomics Meets Drug Development Ivan Gesteira Costa Filho Head of Machine Learning Genomics England Wayne Boucher Senior Scientist Genomics England Wayne Boucher Senior Scientist Genomics England	Sponsored slot available Sponsored by Illumina	Sponsored slot available Sponsored by Illumina	Sponsored slot available Sponsored by Illumina	Sponsored slot available Sponsored by Illumina	Sponsored slot available Sponsored by Illumina	Phase detailed in the announced activity Sponsored by Illumina	Phase detailed in the announced activity Sponsored by Illumina	Phase detailed in the announced activity Sponsored by Illumina	Phase detailed in the announced activity Sponsored by Illumina	Phase detailed in the announced activity Sponsored by Illumina	Phase detailed in the announced activity Sponsored by Illumina
11:00	LIVE LOUNGE OVER AGAIN																	
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13:00	Long-read Sequencing for the Diagnosis of Rare Genetic Disease in Children Richard Gecz Professor of Medical Genetics and Genomics University Of Adelaide	Lessons Learned from Scaling Proof of Concept Studies to Population Level Pathogen Surveillance Adam Bewshea Senior Bioinformatician Sea Genes Health	Integrative Computational Analysis of Single-cell Transcriptomics for Immune Cell Profiling in Cancer Immunotherapy Jingxian Sun Senior Bioinformatician Earlham Institute	Insights From Preclinical Phenotyping of Neurodegenerative Disease Genes and Beyond Nigel Jamieson Senior Lecturer University of Glasgow	Advance Applications of mRNA Profiling in Cancer Diagnostics Matthew Krzes Head Molecular pathology Hub	Multi-Omics Integration Reveals Gut-Brain Neuroimmune Signatures in Parkinson's Disease Jemmett Ashwin Postdoctoral Research Associate University of Birmingham	Phase detailed in the announced activity Sponsored by Illumina	Agentic AI in Molecular Dynamics: Generative Foundation Models for Protein Design Guglielmo Ianiro Partner MMC	Genomics-guided Drug Development Pathways: Multiple Sclerosis Genetics Drug Targets Cristina Menni Senior Lecturer, Molecular Epidemiology King's College London Cristina Menni Senior Lecturer, Molecular Epidemiology King's College London	Rapid Nickel Tolerance Classification From Genomic Data Tatiana Dobrzynski Senior Lecturer University of Nottingham	Sponsored slot available Sponsored by Illumina	Sponsored slot available Sponsored by Illumina	The Rare Genomics Stage will explore how genomics is reshaping healthcare beyond the lab Phase detailed in the announced activity	The NHS Genomics are still miles from a Rosington all of May ? Phase detailed in the announced activity	Sponsored slot available Sponsored by Illumina	Sponsored slot available Sponsored by Illumina	Sponsored slot available Sponsored by Illumina	Phase detailed in the announced activity Sponsored by Illumina	Phase detailed in the announced activity Sponsored by Illumina	Phase detailed in the announced activity Sponsored by Illumina	Phase detailed in the announced activity Sponsored by Illumina
13:20	The Promise of Long Reads in Ukrainian Sea Turtle Genomics Mikhail Shaych Senior Lecturer Earlham Institute	Sponsored by Illumina	Sponsored by Illumina	Sponsored by Illumina	Sponsored by Illumina	Sponsored by Illumina	Sponsored by Illumina	Sponsored by Illumina	Sponsored by Illumina	Sponsored by Illumina	Sponsored by Illumina			Sponsored by Illumina	Sponsored by Illumina	Sponsored by Illumina		
13:40		The Telomere-to-Telomere Genome Phenomics Archive: Enabling Global Research Access to Complete Genomes Nikolai Fedrigo Postdoctoral Fellow Earlham Institute	Using Deep Spatial Tissue Genomics to Move Precision Medicine Beyond Average Patient Profiles Ahmed Mamdouh Postdoctoral Fellow University of Birmingham	Sponsored by Illumina	Precision Diagnostics in Pediatric Cancer Bertram Tops Head Molecular Genetic Pathology Princess Máxima Center for Pediatric Oncology	Sponsored by Illumina	Sponsored by Illumina	Sponsored by Illumina	Sponsored by Illumina	Sponsored by Illumina	Sponsored by Illumina			Sponsored by Illumina	Sponsored by Illumina	Sponsored by Illumina		
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