The Festival of Genomics & Biodata • Day 1 Agenda • June 24th 2025

Plenary Keynote Sessions

TIME	
08:55	Opening Remarks
09:00	At The Forefront of Genomics: Making Genomic Medicine a Reality — Eric Green, Director, NHGRI
09:30	More details to be announced shortly
10:00	More details to be announced shortly — Sponsored by Velsera
10:30	Fireside Chat: From Sequencing to Sailing - A Journey of Genomics — J. Craig Venter, Founder, Chairman, and CEO, J. Craig Venter Institute
11:00	NETWORKING BREAK

Stage columns: Innovation Stage | Multi-Omics Stage | AI in Drug Discovery Stage | Biodata Stage | Single-Cell & Spatial Stage | Proteomics Stage | Cancer Diagnostics Stage | Genome Dome | Room 50

11:30 session

- **Innovation Stage** — PANEL: Sequencing in 2025 and Beyond — Niall Lennon, Senior Director, Genomics Platform, Broad Institute; Claire Hartman, Director of the Bayer Core, Bayer Crop Science; Gary Karver, Director of Genomics, Yale Genome Analysis Center, Yale University
- **Multi-Omics Stage** — How to Effectively Integrate Multi-Omic Data to Model Gene Regulatory Networks — Kimberly Glass, Assistant Professor of Medicine, Channing Division of Network Medicine, Brigham and Women's Hospital and Harvard Medical School
- **AI in Drug Discovery Stage** — Leveraging Advanced scRNA to Accelerate Drug Discovery from Target Identification to Disease Indication and Patient Stratification — Emanuele di Grandi, VP, Global Head of Precision Medicine & Computational Biology, Sanofi
- **Biodata Stage** — PANEL: Scaling Up Genomics Data to Support Drug Development Strategy — Vinh Dinh, Associate Director, Dynamic Data Science, AbbVie; Hulin Xu, Associate Director, Data Science, Novartis
- **Single-Cell & Spatial Stage** — Identifying Novel Targetable Pathways/Biology with Single-Cell Atlases — Saurabh Vishnu Laddha, Principal Computational Scientist, Johnson & Johnson Innovative Medicine
- **Proteomics Stage** — PANEL: Proteomics at Scale: Big Studies, Big Data and Even Bigger Opportunities — Benjamin Sun, Director and Head of Population Health Data Science, Biogen; Melissa Miller, Senior Director, Human Genetics, Pfizer; Sonja Hess, Scientific Director, Proteomics, AstraZeneca
- **Cancer Diagnostics Stage** — Application of AI and Multi-Omic Data Science to Derive Early Actionable Signatures and Overcome Anti-Tumour Resistance — Shamith Samarajiwa, Group Leader, Computational Biology & Genomic Data Science, University College London
- **Genome Dome** — ROUNDTABLE DISCUSSION: Building Inclusivity and Trust in Genomics

12:00

- Sequencing Innovations track

12:30

- **Innovation Stage** — Reliable Detection of DNA Modifications Using Long Read Sequencing — Gang Fang, Professor, Icahn School of Medicine, Mount Sinai
- **Multi-Omics Stage** — Hi-Fi Method for High-Dimensional Multi-View Omic Data Integration and Prediction Accounting for Subgroup Heterogeneity — Sandra Safo, Associate Professor, Division of Biostatistics & Health Data Science, University of Minnesota
- **Biodata Stage** — Target Identification and Validation with Biomedical Knowledge Graphs — Marcin von Grotthuss, Director, Data Integration & Analytics, Takeda Pharmaceuticals
- **Single-Cell & Spatial Stage** — Using Million Veteran Program Data to Improve Health Care in the Healthcare of Veterans — Jason Vassy, Associate Professor, Division, Harvard University, Government/Veterans
- **Proteomics Stage** — Mass Spectrometry-based Proteomics: From Single Cells to Clinical Application — Judith Cluetz, Director of the Mass Spectrometry, Boston Children's Hospital
- **Cancer Diagnostics Stage** — Advancing Precision Medicine in Breast Cancer: Targeting Resistance Mechanisms and Metastasis — Adrian Lee, Director, Institute for Precision Medicine, UPMC, University of Pittsburgh

13:00	LUNCH & LIVE LOUNGE TALKS
13:05	More details to be announced shortly — Sponsored by Beckman Coulter
13:20	More details to be announced shortly — Sponsored by Single Cell Discoveries
13:35	Rare Variant Allele Detection from Urinary cfDNA by Droplet Digital PCR — Kivanc Donmez, Product Manager, Omega Bio-tek — Sponsored by Omega Bio-tek
13:50	More details to be announced shortly — Sponsored by Takara Bio
14:05	DRUG-seq: High throughput extraction free transcriptomics for next generation compound screening — Ricardo Gomez, CSO and Co-Founder, Althea Genomics — Sponsored by Althea Genomics

14:25 session

- **Innovation Stage** — Exploration of Transcriptome Diversity Using Long Read Sequencing — Gene Yeo, Professor, University of California San Diego
- **Multi-Omics Stage** — How to Use Directional Multi-Omic Data Fusion for Gene Prioritisation and Pathway Enrichment Analysis — Giri Narasimhan, Professor, Bioinformatics Research Group, The Ontario Institute of Bioinformatics, University of Toronto
- **AI in Drug Discovery Stage** — Applying Foundation Models and Generative AI for Drug Design and Discovery — Anshul Kundaje, Director of Machine Learning, AstraZeneca
- **Biodata Stage** — Advancing the Landscape of Clinical Actionability in Cancer: An Evidence-based Framework from the INTERVEN Oncology Knowledge Consortium — Antonio Olivaeri, Director, Clinical Genomics, Brigham and Women's Hospital
- **Single-Cell & Spatial Stage** — Advancing the Landscape of Clinical Actionability in Cancer: An Evidence-based Framework from the INTERVEN Oncology Knowledge Consortium — Antonio Olivaeri, Director, Clinical Genomics, Brigham and Women's Hospital
- **Proteomics Stage** — Using High Throughput Affinity Proteomics to Develop a Proteomic Aging Clock — Dorina Sallin-Olde, Associate Professor, University of Connecticut
- **Cancer Diagnostics Stage** — Discovering cfDNA Methylation Biomarkers for Liquid Biopsy-based Cancer Detection and Monitoring — Gangning Liang, Professor of Urology, University of Southern California
- **Genome Dome** — ROUNDTABLE DISCUSSION: AI in Healthcare Transformation

14:55

- Long-Read Sequencing track

15:25

- **Innovation Stage** — Long Read Sequencing for Brain Tumours — Amelia Rodriguez, Vice Chair of Research, University of Arkansas Medical Sciences
- **Multi-Omics Stage** — Applying Multi-Omics Data Integration with Knowledge Graphs and Network Analysis to Identify New Targets — Bin Li, Senior Director, Computational Biology, Takeda
- **Biodata Stage** — Utilizing Foundation Models to Evaluate Immunotherapy Resistance Mechanisms in Cancer — Gaurav Kumar, Associate Director, Computational Biology, Teva Pharmaceuticals
- **Single-Cell & Spatial Stage** — Automated Real-World Data Integration Improves Cancer Outcome Prediction — Nicholas Schultz, Director, Cancer Data Science Initiatives, Memorial Sloan Kettering Cancer Center
- **Proteomics Stage** — Single-Cell Profiling for Pooled Screens in Vaccine Development — Luigi Alvarado, Associate Director, Molecular Analytics, GSK
- **Cancer Diagnostics Stage** — Proteogenomic Analysis of Human Colon to Identify Druggable Targets — Oskar Vanhoe, Associate Professor, Baylor College of Medicine

15:55	NETWORKING BREAK

16:25 session

- **Innovation Stage** — Revealing Complex Genotype-Phenotype Correlations using Population-Scale Long Read Sequencing — Fritz Sedlazeck, Associate Professor, Baylor College of Medicine
- **Multi-Omics Stage** — Leveraging Deep 'Omics' and AI Profiling to Uncover Disease-Relevant Signatures — Deepak Jha, Senior Scientist, Genome Sciences
- **AI in Drug Discovery Stage** — The Promise of AI/ML for Practical Drug Discovery — Brandon Frenz, Vice President, Biology, Recursion
- **Biodata Stage** — Harnessing Multi-Omic Cancer Data with the Genomic Data Commons (GDC): An Impactful Discovery Tool for Cancer Progression and Response to Therapy — David Nagalli, Project Officer, Genomic Data Commons, NCI
- **Single-Cell & Spatial Stage** — How to Apply Novel Single-Cell and Spatial Genomic Techniques to Study Aging and Aging-Related Diseases — Junyue Cao, Assistant Professor, The Rockefeller University
- **Proteomics Stage** — Finding Actionable Therapeutic Vulnerabilities in Breast Cancer Using Proteogenomics — Linia Liang, Co-Leader of the Breast Cancer Programme, Cleveland Clinic
- **Cancer Diagnostics Stage** — Leveraging a Multi-Omic Approach to Liquid Biopsy Cancer Genomics and Profiling — André Chaudhuri, Vice Chair, Translational Research, Mayo Clinic
- **Genome Dome** — ROUNDTABLE DISCUSSION: Transforming Diagnosis in the Digital Age: Digital Pathology & AI

16:55

- Combining Technologies to Deep Phenotyping track

17:25

- **Innovation Stage** — Integrating Data to Uncover Molecular Mechanisms of Cancer Development and Genotype-Phenotype Insights — Irene Radovich, Director, Bioinformatics Manager, Children's Mercy Research Institute
- **Multi-Omics Stage** — How to Use Machine Learning Approaches to Interpret the Tumor Microenvironment Using Spatial Immune-profiling & Spatial Transcriptomics for Personalised Medicine — Arvind Rao, Professor of Computational Medicine and Bioinformatics, University of Michigan Ann Arbor
- **Biodata Stage** — PANEL: Empowering Your AI Applications in Healthcare Through Target Discovery — Manoj Sarkari, Director of Research, Bioinformatics, Center for Clinical and Translational Science, Vanderbilt University; Michael Shtutman, Director, Data, AI & Genome Sciences, Merck; Sinuwu Chinto, Head of Genomics and AI, Dana Farber Cancer Institute; Mason El-Lashish, Director of Therapeutic Data Science and Professor of Genomic Medicine, The University of Texas MD Anderson Cancer Center
- **Single-Cell & Spatial Stage** — Advancing Alzheimer's Research through Genomics: Insights from GWAP and Single-Cell Approaches — Li Yan Wang, Co-Director, Penn Neurodegeneration Genomics Center, University of Pennsylvania
- **Proteomics Stage** — Map Genetic and Non-Genetic Disease Drivers through Single-Cell Multi-Omics — Anna S. Nam, Assistant Professor, Weill Cornell Medicine and New York Presbyterian Hospital
- **Cancer Diagnostics Stage** — Leveraging NGS in Clinical Development for Solid and Hematologic Cancers — Sheena Haanoor, Head of Translational Omics, Hematology, AstraZeneca

17:55	DRINKS RECEPTION
19:25	CLOSE

The Festival of Genomics & Biodata • Day 2 Agenda • June 25th 2025

Plenary Keynote Sessions

TIME	
08:55	Opening Remarks
09:00	Catching the Floating DNA Around Us — Carl Zimmer, New York Times Columnist and Author
09:15	The Power of Preventative Genomic Screening — Robert Green, Professor of Medicine, Harvard Medical School
09:30	More details to be announced shortly
09:45	Unlocking Data, Unlocking Treatments: AI in ALS — Caroline Purslow, Head of Health, Challenge Works; Pat Kennedy, CEO, 10000 Brain Project
10:00	More details to be announced shortly — Matthew Goldberg, Senior Vice-President, Medical, Castle Biosciences — Sponsored by Castle Biosciences
10:30	PANEL: Reimagining Healthcare through Bridging Innovation and Patient Impact — Nicole Renaud, Director - Global Co-Lead of Human Genetics & Targets, Novartis; Jeff Reid, Vice-President, RGC Chief Data Officer, Regeneron; Joseph Maranville, Executive Director, Bristol Myers Squibb; Melissa Miller, Senior Director, Human Genetics, Pfizer
11:00	NETWORKING BREAK

11:30 session

- **Innovation Stage** — The Development of Aging Related DNA Methylation-Derived Predictors of Phenotypic Traits — Andrea Cardona, Assistant Professor, Stanford University
- **Multi-Omics Stage** — Clinical Proteomics and Metabolomics to Biopharma Drug Discovery and Development — Sonja Hess, Senior Director, Center of Genomics Research, Discovery Sciences, R&D, AstraZeneca
- **AI in Drug Discovery Stage** — Genomics, Stem Cells, and AI for Drug Discovery — Joseph Wu, Director, Stanford Cardiovascular Institute, Stanford University
- **Biodata Stage** — TellOmics: A Shift Multi-Omics Data Management and Analytics Platform — Felix Francis, Senior Manager, Data Management and Analytics, GSK
- **Single-Cell & Spatial Stage** — Harnessing Multi-Well: Multi-Sample, Multimodal Spatial and Molecular Maps — Wenkmy Tannery, Principal Investigator and Assistant Professor, Computational Oncology, Memorial Sloan Kettering Cancer Center
- **Proteomics Stage** — Supporting Clinical Trials with High Throughput Proteomic Profiling — Jessica Mekerishvili, Associate Director, AstraZeneca
- **Cancer Diagnostics Stage** — PANEL: Paving the Way Towards Liquid First: Challenges, Opportunities and Recommendations — Lauren Leiman, Executive Director, BloodPAC; Mahan Bader Pashaei, Director, Precision Oncology, Genentech; Daniel Stetson, Director, Translational Medicine, AstraZeneca
- **Genome Dome** — ROUNDTABLE DISCUSSION: Driving Innovation in Precision Medicine for Broadscale Implementation

12:00

- Epigenetics track

12:30

- **Innovation Stage** — Harnessing the Power of Scaling and Sequencing Datasets to Drive Medicines of the Future — Benny Chavelly, Vice President and Chief Genomics and Data Science Officer, Regeneron
- **Multi-Omics Stage** — The Power of Scaling and Sequencing Datasets to Drive Medicines of the Future — Benny Chavelly, Vice President, Regeneron
- **AI in Drug Discovery Stage** — Phenomic Foundation Models for Drug Discovery — Safiye Celik, Associate Director of Data Science, Recursion
- **Biodata Stage** — Where Quantum Computing Meets Clinical Trials in the Age of AI — Doran Kaschi, Senior Manager, Data Science, Amgen
- **Single-Cell & Spatial Stage** — Novel Spatial Molecular Pathology Approaches to Understand Disease Pathophysiology and Support Drug Discovery — Sophia Kuhnert, Associate Director, Spatial Biology, AbbVie
- **Proteomics Stage** — Exploring Organ Crosstalk in a Model for Atherosclerosis using Multi-Omics and Proteomics — Carl Engle, Director of Proteomics Research, Merck
- **Cancer Diagnostics Stage** — Multi-omic Analysis of CTCs for Cancer Profiling and Diagnostics — David Wheeler, Director, Precision Oncology and Associate Professor of Pathology, Harvard Medical School & BIDMC

13:00	LUNCH & LIVE LOUNGE TALKS
13:05	More details to be announced shortly
13:20	More details to be announced shortly
13:35	More details to be announced shortly
13:50	More details to be announced shortly

14:10 session

- **Innovation Stage** — The Genomes Are Here: Harnessing Whole-Genome Sequencing to Redefine Target Discovery in Complex Disease — Paolo Bronson, Associate Director, Genetics, Human Genetics and Genomics, GSK
- **Multi-Omics Stage** — Multi-Modal Spatial - Omics Characterisation Reveals Determinants of Cell Identity in Pancreatic Cancer — Marcin Imielinski, Associate Scientific Director, Bristol Myers Squibb
- **AI in Drug Discovery Stage** — Biological Sequence Learning at DGX at — Ali Afjan Hasani, Director of AI, Product, DGX
- **Biodata Stage** — Large-Scale Population Genetics: Influencing Common & Rare Disease Drug Discovery — Neil Harding, Computational Genetics Lead and Spatial Data Strategy for Prioritising Disease Hypotheses — Dean Lee, Senior Spatial's, Genentech
- **Single-Cell & Spatial Stage** — Single-Cell and Spatial Genomics to Understand Molecular Progression in Ovarian Cancer — Kristin Beaumont, Assistant Professor, Mount Sinai
- **Proteomics Stage** — Multimodal Imaging Mass Spectrometry in Drug Discovery: Integrating Complex Biological Phenomena — Elizabeth Neumann, Assistant Professor, Vanderbilt University
- **Genome Dome** — ROUNDTABLE DISCUSSION: Exploring the Future of Genomic Sequencing: Innovations and Impact

14:40

- Variant Discovery track

15:10

- **Innovation Stage** — Assessing Genome Integrity of Gene Therapy Vectors Using Long Read (SMRT) Sequencing — Prasad Koranmalli, Scientist - Next Generation Sequencing, Sanofi
- **Multi-Omics Stage** — Decipher Responses to Infection using Multi-Scale Multi-Omic Approaches — Christian Forst, Associate Professor of Genetics and Genomic Sciences, Icahn School of Medicine at Mount Sinai
- **AI in Drug Discovery Stage** — Deep Learning Enabled Computational Chemistry/Screens at DGX — Emanuele di Grandi, VP, Global Head of Precision Medicine & Computational Biology, Sanofi
- **Biodata Stage** — PANEL: How to Optimise Data Strategies and Governance to Support Biology and Discovery — Keith Dunker, Head of Computational Chemistry, AbbVie; Charles O'Donnell, Vice President, Head of Computational Genomics and Data Sciences, Amgen Therapeutics
- **Single-Cell & Spatial Stage** — PANEL: How to Integrate Single-Cell and Spatial Effectively? A Deep Dive into Challenges and Solutions — Rebecca Mathew, Head of Spatial Biology, Merck; Priya Chockalingam, Head of Clinical Genomics & Translational Research, Bristol Myers Squibb; Sudha School of Medicine at Mount Sinai
- **Proteomics Stage** — Spatial Proteotranscriptomic Integration to Reveal Therapeutic Resistance Mechanisms in Cancer — Martin Hemberg, Assistant Professor of Immunology, Brigham and Women's Hospital
- **Cancer Diagnostics Stage** — Using Immunotherapy Earlier to Target Genetic Mutations More Precisely: Experimental Rectal Cancer Treatment — Andrea Cercek, Medical Oncologist, Founder and Co-Director, Center for Young Onset Colorectal Cancers and Gastrointestinal Oncology, Memorial Sloan Kettering Cancer Center

15:40	CLOSE