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

TIME	Plenary Keynote Sessions
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	**From Algorithms to Advancing Care: Lessons Learned Innovating in Diagnostics & Discovery** **Jack DiGiovanna**, Chief Science Officer, **Velsera** *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**

TIME	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
	SEQUENCING INNOVATIONS	STRATEGIES FOR INTEGRATIVE MULTI-OMICS	DATA FOR AI IN DRUG DISCOVERY	FROM BIG DATA TO DISCOVERY	SINGLE-CELL FOR TARGETABLE PATHWAYS	NEXT GENERATION PROTEOMICS	CANCER EPIGENETICS AND PRECISION ONCOLOGY	ROUNDTABLE DISCUSSION	WORKSHOP
11:30	**PANEL: Sequencing in 2025 and Beyond** **Niall Lennon**, Senior Director, Genomics Platform, **Broad Institute** **Claire Hartman**, Director of the Bauer Core, **Harvard University** **Bony Kumar**, Director of Operations, Yale Genome Analysis Center, **Yale University**	**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**	**Leveraging Advanced AI/ML to Accelerate Drug Discovery: from Target Identification to Disease Indication and Patient Stratification** **Emanuele di Rinaldis**, VP, Global Head of Precision Medicine & Computational Biology, **Sanofi**	**PANEL: Scaling Big Genomics Data to Support Drug Development Strategy** **Violet Zhang**, Associate Director, Genomic Data Sciences, **GSK** **Huilei Xu**, Associate Director, Data Science, **Novartis** **Yupu Liang**, Head of Bioinformatics Data Engineering, **Alexion Pharmaceuticals**	**Identifying Novel Targetable Pathways/Biology with Single Cell Atlases** **Saurabh Vishnu Laddha**, Principal Computational Scientist, **Johnson & Johnson Innovative Medicines**	**PANEL: Proteomics at Scale: Big Studies, Big Data and Even Bigger Opportunities** **Benjamin Sun**, Director and Head of Population Health Omics, **Bristol Myers Squibb** **Melissa Miller**, Senior Director, Human Genetics, **Pfizer** **Sonja Hess**, Senior Director, Centre of Genomics Research, Discovery Sciences, R&D BioPharmaceuticals, **AstraZeneca**	**Application of AI and Multi-Omic Data Science to Detect Early Carcinogenic Signatures and Uncover Anti-Tumour Responses** **Shamith Samarajiwa**, Senior Lecturer & Group Leader, Computational Biology & Genomic Data Science, **Imperial College London**	**ROUNDTABLE DISCUSSION: Building Inclusivity and Trust in Genomics** - How can we improve inclusivity in Omics research and address trust issues in minority populations, while enhancing genomics education at the community level? - What are the barriers preventing diverse communities from participating in genomics research, and how can we address them to ensure a more inclusive future? - How can we rebuild trust in genomics research within minority populations, especially considering past ethical violations and current challenges? - What are the best practices for educating communities about genomics, and how can we foster engagement at a grassroots level? - How can researchers, educators, and community leaders work together to increase participation in genomics and ensure that all voices are represented in this rapidly evolving field? - What steps can be taken to maintain inclusivity and trust in genomics research over time, ensuring sustained community involvement? **Elizabeth Ofili**, Professor of Medicine, Director and Senior Associate Dean, **Moorhouse School of Medicine** **Angélica Torres-Berrío**, Lurie Center for Autism, **Massachusetts General Hospital** **Maria Chahrour**, Associate Professor, **UT Southwestern Medical Center** **Anna Lewis**, Research Scientist and Associate, **Harvard Medical School and Brigham and Women's Hospital**	**WORKSHOP: Mastering Spatial Data Analysis: From Basics to Cutting Edge Innovations** This workshop is designed to provide a comprehensive introduction to spatial data analysis, with a focus on its applications in biological research. Participants will learn about the fundamental concepts, methodologies, and tools used in spatial data analysis, including the latest advancements in the field. The workshop will have hands-on sessions, enabling participants to apply the concepts learned to real-world datasets. **Abul Hassan Samee**, Assistant Professor, Integrative Physiology, **Baylor College of Medicine** **Ilya Korsunsky**, Principal Investigator, **Brigham and Women's Hospital** **Allison May**, Assistant Professor of Urology, **University of Virginia**
12:00	**More details to be announced shortly** *Sponsored by Roche*	**More details to be announced shortly** *Sponsored by Azenta*	**Sponsored slot available**	**A Modern Data & Compute Solution for Biological R&D** **Kyle Giffin**, Chief Operating Officer, **LatchBio** *Sponsored by LatchBio*	**More details to be announced shortly** *Sponsored by Parse Biosciences*	**Precision Proteomics: Advancing Multiomics with Next-Gen Protein Sequencing** **Meredith Carpenter**, Head of Scientific Affairs, **Quantum-Si** **Winston Timp**, Assoc Professor of Biomedical Engineering, **Johns Hopkins University** *Sponsored by Quantum-Si*	**Embracing the Power of Liquid Biopsy through Genome-Wide Methylation Profiling** **Chennan Li**, Postdoctoral Fellow, **National Cancer Institute** *Sponsored by biomodal*		
12:30	**Reliable Detection of DNA Modifications Using Long Read Sequencing** **Gang Fang**, Professor, Icahn School of Medicine, **Mount Sinai**	**HIP: A 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**	**Target Identification and Validation with One Research FAIR Data Lakes** **Marcin von Grotthuss**, Director, Data Integration & Analytics, **Takeda Pharmaceuticals**	**Using Million Veteran Program Data to Improve Health Care in the Healthcare of Veterans.** **Jason Vassy**, Associate Professor; Director, **Harvard University; Genomes2Veteran**	**How to Repurpose Drugs using Single-Cell and Spatial Transcriptomics Data** **Lana Garmire**, Associate Professor, **University of Michigan**	**Mass Spectrometry-based Proteomics: From Single Cells to Clinical Applications** **Judith Steen**, Director of the Neuroproteomics Laboratory, **Boston Children's Hospital**	**Advancing Precision Medicine in Breast Cancer: Targeting Resistance Mechanisms and Metastasis** **Adrian Lee**, Director, Institute for Precision Medicine, **UPMC, University of Pittsburgh**		

TIME	LUNCH & LIVE LOUNGE TALKS
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** **Kiranmai Durvasula**, 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** **Riccardo Dainese**, CEO and Co-Founder, **Alithea Genomics** *Sponsored by Alithea Genomics*

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	LONG-READ SEQUENCING	MULTI-OMICS INTEGRATION FOR PATHWAY ANALYSIS	GENERATIVE AI FOR DRUG R&D	BIG DATA, EHRs AND IMPROVING CANCER OUTCOMES	APPLICATIONS OF SINGLE-CELL DATA ANALYSIS	CLINICAL PROTEOMICS AND BIOMARKER DISCOVERY	ADVANCES IN LIQUID BIOPSY DIAGNOSTICS & PROFILING	ROUNDTABLE DISCUSSION	WORKSHOP
14:25	**Exploration of Transcriptome Diversity Using Long-Read Sequencing** **Daniel Le**, Principal Bioinformatics Scientist, **Genentech**	**How to Use Directional Multi-Omics Data Fusion for Gene Prioritization and Pathway Enrichment Analysis** **Jüri Reimand**, Principal Investigator of Computational Biology, **The Ontario Institute of Cancer Research (OICR)** & Associate Professor, **University of Toronto**	**Applying Foundation Models and Generative AI for Drug Design and Discovery** **Anshul Kanakia**, Director of Machine Learning, **AstraZeneca**	**Advancing the Landscape of Clinical Actionability in Cancer: An Evidence-based Framework from the INT²GRATE Oncology Consortium** **Arezou Ghazani**, Director, Clinical Genomics, **Brigham and Women's Hospital**	**Single-Cell Sequencing to Evaluate ABBV-CLS-484: A First in Class, First in Mechanism PTPN1/2 Inhibitor Driving Potent Antitumor Immunity** **Kyle Halliwill**, Group Lead, **AbbVie**	**Using High-Throughput Affinity Proteomics to Develop a Proteomic Aging Clock** **Breno Salter Diniz**, Associate Professor, **University of Connecticut**	**Discovering cfDNA Methylation Biomarkers for Liquid Biopsy-based Cancer Detection and Monitoring** **Bodour Salhia**, Inaugural Interim Chair of Cancer Biology, **University of Southern California**	**ROUNDTABLE DISCUSSION: AI in Healthcare Transformation** AI is transcending the realm of buzzwords to become a crucial component in modern medicine. It has the potential to uncover intricate disease patterns, enhance treatment strategies, and even foresee future health complications before they manifest. With innovations ranging from AI-enhanced diagnostic tools to sophisticated virtual health assistants, the transformative power of AI promises to revolutionize healthcare by making it more efficient, accessible, and effective. This roundtable will delve into the latest advancements in AI technology and explore their profound implications for the future of healthcare. **David Bates**, Professor of Medicine, **Harvard Medical School** **Arvind Rao**, Associate Professor Computational Medicine & Bioinformatics, **University of Michigan Ann Arbor** **Zhandong Liu**, Chief of Computational Sciences, **Texas Children's Hospital &** Endowed Chair, Associate Professor in Pediatrics, **Baylor College of Medicine** **Jason Johnson**, Senior Vice President, Chief Data and Analytics Officer, **Dana-Farber Cancer Institute**	**WORKSHOP: Computational Biology Upskilling** As we are seeing many people pivot their career and step into the exciting world of data science, our Computational Biology Upskilling discussion equips you with the knowledge and strategies to make a seamless transition into this high-demand field. You will be able to ask your burning questions to professionals who have made the transition. Learn how to upskill and build a strong portfolio and network effectively. **Tommy Tang**, Director, Bioinformatics, **AstraZeneca** **Dean Lee**, Senior Expert I, Data Science, **Novartis**
14:55	**More details to be announced shortly** *Sponsored by Oxford Nanopore Technologies*	**Sponsored slot available**	**Sponsored slot available**	**More details to be announced shortly** *Sponsored by DNAnexus*	**More details to be announced shortly** *Sponsored by Scale Biosciences*	**More details to be announced shortly** *Sponsored by Olink Proteomics*	**Sponsored slot available**		
15:25	**Long-Read Sequencing for Brain Tumours** **Analiz Rodriguez**, Vice Chair of Research, **University of Arkansas Medical Sciences**	**Applying Multi-Omics Data Integration with Knowledge Graphs and Network Analysis to Identify New Targets** **Bin Li**, Senior Director, Computational Biology, **Takeda**	**Utilizing Foundation Models to Evaluate Immunotherapy Resistance Mechanisms in Cancer** **Gaurav Kumar**, Associate Director, Computational Biology, **Teva Pharmaceuticals**	**Automated Real-World Data Integration Improves Cancer Outcome Prediction** **Nikolaus Schultz**, Director, Cancer Data Science Initiative, **Memorial Sloan Kettering Cancer Center**	**Single-Cell Profiling for Pooled Screens in Vaccine Development** **Luigi Alvarado**, Associate Director, Molecular Analytics, **GSK**	**Proteogenomic Analysis of Human Colon To Identify Druggable Targets** **Suhas Vasikar**, Associate Director, **Pfizer**	**Modulating the Biology of cfDNA to Improve Liquid Biopsies** **Viktor Adalsteinsson**, Director, Gerstner Center for Cancer Diagnostics, **Broad Institute**		
15:55	**NETWORKING BREAK**								

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	COMBINING TECHNOLOGIES FOR DEEP PHENOTYPING	AI FOR MULTI-OMICS DATA INTEGRATION	AI IN TARGET IDENTIFICAITON & VALIDATION	BIODATA STORAGE, INTEGRATION AND ACCESS	ADVANCES IN SINGLE-CELL AND SPATIAL OMICS	PROTEOGENOMICS	BALANCING SPECIFICITY AND SENSITIVITY IN LIQUID BIOPSY ANALYSIS	ROUNDTABLE DISCUSSION	
16:25	**Revealing Complex Genotype-Phenotype Correlations using Population-Scale Long-Read Sequencing** **Fritz Sedlazeck**, Associate Professor, **Baylor College of Medicine**	**Leveraging Deep 'Omics' and ML Integration to Uncover Disease Relevant Signatures** **Deepak Jha**, Senior Scientist, **Genome Sciences**	**The Promise of AI/ML for Preclinical Drug Discovery** **Brandon Probst**, Vice President, Biology, **Recursion**	**Harnessing Multi-Omic Cancer Data with the Genomic Data Commons (GDC): An Impactful Discovery Tool for Cancer Progression and Response to Therapy** **David Sturgill**, Project Officer, Genomic Data Commons, **NCI**	**How to Apply Novel Single-Cell and Spatial Genomic Techniques to Study Aging and Aging-Related Diseases** **Junyue Cao**, Assistant Professor, **The Rockefeller University**	**Finding Actionable Therapeutic Vulnerabilities in Breast Cancer Using Proteogenomics** **Julie Lang**, Co-Leader of the Breast Cancer Programme, **Cleveland Clinic**	**Leveraging a Multi-Omic Approach to Liquid Biopsy Cancer Detection and Profiling** **Aadel Chaudhuri**, Vice Chair, Translational Research, **Mayo Clinic**	**ROUNDTABLE DISCUSSION: Transforming Diagnosis in the Digital Age: Digital Pathology & AI** This session will: - explore the opportunities and challenges associated with implementing digital pathology in biomarker discovery and patient selection - look at how these advances can reshape translational medicine - address potential hurdles in integrating this technology into clinical practice - consider the evolving role of pathologists in delivering precise diagnoses and assessing biomarkers for companion diagnostics **Uma Saxena**, Digital Pathology, Computational Biology, **Bristol Myers Squibb** **Qing Li**, Director, **Moderna** **Orr Ashenberg**, Associate Director, Computational Biology, **Broad Institute of MIT and Harvard**	**More details to be announced shortly**
16:55	**Sponsored slot available**	**Sponsored slot available**	**Sponsored slot available**	**Sponsored slot available**	**A Scalable Platform for Simultaneous Single-Cell Imaging and Sequencing** **Caroline Sartain**, Director, Application and Assay Development, **FlexOmics LLC** *Sponsored by FlexOmics LLC*	**Sponsored slot available**	**Sponsored slot available**		
17:25	**Integrating Data to Uncover Molecular Mechanisms of Cancer Development and Genotype-Phenotype Insights** **Irina Pushel**, Bioinformatics Manager, **Children's Mercy Research Institute**	**How to Use Machine Learning Approaches to Interpret the Tumor Microenvironment Using Spatial Immuno-profiling & Spatial Transcriptomics for Personalized Medicine** **Arvind Rao**, Professor of Computational Medicine and Bioinformatics, **University of Michigan Ann Arbor**	**PANEL: Empowering Your AI Applications in Therapeutics Target Discovery** **Manoj Kandpal**, Director of Research, Bioinformatics, Center for Clinical and Translational Science, **Rockefeller University** **Michael Steinbaugh**, Director, Data, AI & Genome Sciences, **Merck** **Shameer Khader**, Executive Director, Precision Medicine and Computational Biology, **Sanofi** **Simona Cristea**, Head of Genomics and AI, **Dana-Farber Cancer Institute** **Bissan Al-Lazikani**, Director of Therapeutics Data Science and Professor of Genomic Medicine, **The University of Texas MD Anderson Cancer Center**	**Advancing Alzheimer's Research through Genomics: Insights from ADSP and NIAGADS** **Li-San Wang**, Co-Director, Penn Neurodegeneration Genomics Center, **University of Pennsylvania**	**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**	**Computational Methods for Large-Scale Proteogenomic Data Analysis** **DR Mani**, Director of Computational Proteomics, **Broad Institute**	**Leveraging MRD in Clinical Development for Solid and Hematologic Cancers** **Duane Hassane**, Head of Translational Omics, Hematology R&D, **AstraZeneca**		
17:55	**DRINKS RECEPTION** *Sponsored by Dantech Corporation*								
19:25	**CLOSE**								

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

TIME	Plenary Keynote Sessions
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 Brannelly**, CEO, **10'000 Brain Project**
10:00	**Using Advanced Molecular Diagnostics to Improve Risk-Aligned Patient Care and Outcomes** **Matthew Goldberg**, Senior Vice President, Medical, **Castle Biosciences** *Sponsored by Castle Biosciences*
10:30	**PANEL: Reimagining Drug Development Through Data-Driven Innovation to Accelerate 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**

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	EPIGENETICS	OMICS IN DRUG DISCOVERY	BEYOND PROOF OF CONCEPT	HARNESSING BIG OMICS DATA IN PHARMA	SPATIAL DATA MODELLING	TRANSLATIONAL PROTEOMICS	CANCER GENOMIC PROFILING	ROUNDTABLE DISCUSSION	WORKSHOP
11:30	**The Development of Aging Related DNA Methylation-Derived Predictors of Phenotypic Traits** **Andres Cardenas**, Assistant Professor, **Stanford University**	**Clinical Proteomics and Metabolomics in Biopharma Drug Discovery and Development** **Sonja Hess**, Senior Director, Centre of Genomics Research, Discovery Sciences, R&D BioPharmaceuticals, **AstraZeneca**	**Genomics, Stem Cells, and AI for Drug Discovery** **Joseph Wu**, Director, Stanford Cardiovascular Institute, **Stanford University**	**TakOmics: A FAIR Multi-Omics Data Management and Analytics Platform** **Felix Francis**, Senior Manager, Data Management and Analytics, **Takeda**	**Harnessing MultiTME: Multi-Sample, Multimodal Spatial to Model the Tumor Microenvironment** **Wesley Tansey**, Principal Investigator and Assistant Attending Computational Oncologist, **Memorial Sloan Kettering Cancer Centre**	**Supporting Clinical Trials with High-Throughput Proteomic Profiling** **Jessica Makofske**, Associate Director, **Novartis**	**PANEL: Paving the Way Towards Liquid First. Challenges, Opportunities and Reality.** **Lauren Leiman**, Executive Director, **BloodPAC** **Raluca Budiu-Predoui**, Director of Precision Medicine, **AbbVie** **Aleksandra Markovets**, Director, **AstraZeneca**	**ROUNDTABLE DISCUSSION: Driving Innovation in Precision Medicine for Broader Implementation** In this roundtable discussion, uncover answers to your hottest questions, including; What genomic and data analytics advancements are needed to accelerate precision medicine? How is clinical genomics shaping personalized treatment strategies? What barriers must be overcome to expand precision medicine to diverse patient populations? What are the emerging opportunities in clinical genomics for cancer care and rare diseases? **Simon Heeke**, Assistant Professor, Thoracic Head & Neck Medical Oncology, **MD Anderson Cancer Center** **Winston Hide**, Director, Precision RNA Medicine Core, **Beth Israel Deaconess Medical Center** **Kazimierz Wrzeszczynski**, Associate Director, Clinical Genomics & Molecular Diagnostics, **NYU Langone** **Jan Heng**, Assistant Professor of Pathology, **Harvard Medical School &** Director, Detection Unit, Precision RNA Medicine Core, **BIDMC**	**WORKSHOP: Enhancing Variant Analysis and Interpretation** Clinical interpretation of DNA sequence variants is a crucial part of reporting results from genetic testing. The use of NGS has greatly advanced the diagnosis of genetic disorders in clinical settings. However, the vast number of DNA sequence variants identified in samples, including many that are novel, presents significant challenges for clinical interpretation. This workshop will help develop and improve attendees' skills and knowledge for interpreting genetic variants, including identification, classification, clinical relevance and utilizing relevant tools and resources. **Heidi Rehm**, Co-Director, Medical and Population Genetics. Medical Director, Clinical Sequencing Platform, **Broad Institute** **Liz Worthey**, Section Head, Director, and Associate Professor, **UAB School of Medicine** **Suganthi Balasubramanian**, Director, Computational Biology, **Regeneron**
12:00	**Sponsored slot available**	**More details to be announced shortly** *Sponsored by Element Biosciences*	**Sponsored slot available**	**Unlocking the Secrets of Data: Challenges and Solutions in the Discovery Value Chain** **Jitesh Kannan Pillai**, Group Head, Program Management - Bioinformatics, **Excelra** *Sponsored by Excelra*	**Advancing Tissue Biology Research with Weave software for Spatial Multi-omics** **Marc Claesen**, CEO, **Aspect Analytics** *Sponsored by Aspect Analytics*	**Sponsored slot available**	**Sponsored slot available**		
12:30	**Harnessing Epigenetics to Combat Chemoresistant Cancer Cells** **Noha Shendy**, Senior Post-Doc Fellow, **St. Jude's Research Hospital**	**The Power of Scaling and Deepening Datasets to Drive Medicines of the Future** **Gonçalo Abecasis**, Vice President and Chief Genomics and Data Science Officer, **Regeneron**	**Phenomic Foundation Models for Drug Discovery** **Safiye Celik**, Associate Director of Data Science, **Recursion**	**Where Quantum Computing Meets Clinical Trials in the Age of AI** **Zoran Krunic**, Senior Manager, Data Science, **Amgen**	**Novel Spatial Molecular Pathology Approaches to Understand Disease Pathophysiology and Support Drug Discovery** **Silvia Siso**, Associate Director, **AbbVie**	**Exploring Organ Crosstalk in a Model for Atherosclerosis using Comprehensive Plasma Proteomics** **Sasha Singh**, Director of Proteomics Research, **Brigham and Women's Hospital**	**Multi-omic Analyses of CTCs for Cancer Profiling and Diagnostics** **David Miyamoto**, Physician Scientist and Radiation Oncologist, **Massachusetts General Hospital**		

TIME	LUNCH & LIVE LOUNGE TALKS
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**

TIME	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
	VARIANT SEQUENCING	MULTI-MODAL ANALYSIS	DATA STRATEGIES & TRENDS IN AI FOR DRUG DISCOVERY	POPULATION SCREENING & PUBLIC HEALTH	INTEGRATING SINGLE-CELL, SPATIAL & OTHER OMICS	SINGLE CELL AND SPATIAL PROTEOMICS	PRECISION ONCOLOGY	ROUNDTABLE DISCUSSION	WORKSHOP
14:10	**The Genomes Are Here: Harnessing Whole Genome Sequencing to Redefine Target Discovery in Complex Disease** **Paola Bronson**, Associate Director, Applied Genetics, Human Genetics and Genomics, **GSK**	**Multi-Modal Spatial -Omics Characterisation Reveals Determinants of Cell Identity in Pancreatic Cancer** **Brian Rabe**, Investigator, **Bristol Myers Squibb**	**Biological Sequence Learning at GSK.ai** **Ari Allyn-Feuer**, Director of AI Product, **GSK**	**Large Scale Population Genetics Influencing Common & Rare Disease Drug Discovery** **Guillermo del Angel**, Executive Director, Rare Diseases Head, Centre for Genomics Research, **AstraZeneca**	**Red Herring: A Fundamental Single-Cell and Spatial Data Strategy for Prioritizing Disease Hypotheses** **Dean Lee**, Senior Expert II, **Novartis**	**Developing a Spatial Analysis Toolbox for Early Drug Discovery using Targeted Proteomics and Transcriptomics** **Vineeth Raghuram**, Senior Scientist I, **AbbVie**	**More details to be announced shortly** **Alex Rai**, Professor of Pathology and Cell Biology, **Columbia University**	**ROUNDTABLE DISCUSSION: Exploring the Future of Genomic Sequencing: Innovations and Impact** In this roundtable session, join your peers and get answers to crucial questions, such as: What is the current state of play of the genomic sequencing field? What are some new innovations and sequencing technologies that are progressing the field and allowing faster and more accurate sequencing, and how are these impacting genomic research and drug discovery? How are new sequencing technologies changing the landscape? How is genomic sequencing enabling personalised treatments for cancers and rare diseases? How is genomic sequencing influencing early detection, diagnosis and prevention? Can CRISPR-based gene editing tools be integrated into genomic sequencing for early disease detection and diagnosis? What does the future of genomic sequencing look like? Can we use genomic sequencing techniques to learn more about epigenetics and epigenomics? **Josh Fienman**, Senior Scientist, Genomics (Systems Immunology), **Pfizer**	**WORKSHOP: How to Better Computationally Analyze Your Single-Cell RNA Sequencing (scRNA-seq) Data** This workshop will present an overview of the computational workflow involved in processing scRNA-seq data. It will have hands-on demonstration of the most common tasks and the tools available for addressing central biological questions. The workshop will provide guidelines regarding best practices for performing computational analyses. This tutorial provides a hands-on guide for experimentalists interested in analyzing scRNA-seq data as well as an overview for bioinformaticians seeking to develop new computational methods. **Gracie Gordon**, Computational Scientist 3, **Genentech** **Mary Piper**, Senior Principal Scientist, **Pfizer** **Zhaleh Safikhani**, Principal Machine Learning Research Scientist, **AbbVie**
14:40	**Applying Molecular Genetics and Cytogenetics in the Clinic for Variant Reporting** **Heather Mason-Suares**, Associate Professor in Pathology, **Brigham and Women's Hospital**	**Setting Multi-Modal Strategies for Integrative Radiomics** **Kedar Patwardhan**, Director - Radiomics & Computer Vision, Oncology R&D Data Science, **Astrazeneca**	**Biologics AI Moonshot: Applying Foundation Models and Generative AI to Industrialize Drug Design and Discovery** **Ileena Mitra**, Product Owner Digital R&D, **Sanofi**	**Using Integrative Proteogenomic Analysis to Identify New Targets and Risk Factors for Cardiometabolic Diseases** **Satoshi Yoshiji**, Assistant Professor, **McGill University**	**Single-Cell and Spatial Transcriptomic Analysis to Understand Metastatic Progression in Ovarian Cancer** **Kristin Beaumont**, Associate Professor & Associate Director, Center for Advanced Genomic Technology, Department of Genetics and Genomic Sciences, **Icahn School of Medicine at Mount Sinai**	**Multimodal Imaging Methods for Understanding Complex Biological Phenomena** **Elizabeth Neumann**, Assistant Professor, **UC Davis**	**Companion Diagnostic Development for TCR-Ts** **Elaine Joseph**, Director of Precision Medicine, **AstraZeneca**		
15:10	**Assessing Genome Integrity of Gene Therapy Vectors Using Long-Read (SMRT) Sequencing** **Prasad Kesanakurti**, Scientist - Next Generation Sequencing, **Sanofi**	**Decipher Responses to Infections using Multi-Scale Multi-Omics Approaches** **Christian Forst**, Associate Professor in the Department of Genetics and Genomic Sciences, **Ichan School of Medicine at Mount Sinai**	**PANEL: How to Optimize Data Strategies & Trends to Improve AI for Drug Discovery?** **Elena Dolgikh**, Head of Computational Chemistry/AI/ML, **Monte Rosa Therapeutics** **Emanuele di Rinaldis**, VP, Global Head of Precision Medicine & Computational Biology, **Sanofi** **Rohit Arora**, Innovation Lead - Data Science & AI/ML, **Novo Nordisk** **Charles O'Donnell**, Vice President, Head of Computational Genomics and Data Sciences, **Omega Therapeutics**	**Harnessing Population-Scale Biodata: Leveraging Data from the All of Us Researcher Workbench and BCM's IMAGINE Program for Precision Health** **Eric Venner**, Director, Clinical Informatics, Human Genome Sequencing Center, **Baylor College of Medicine**	**PANEL: How to Integrate Single-Cell and Spatial Effectively? A Deep-Dive into Challenges and Innovations** **Rebecca Mathew**, Principal Scientist, Discovery Biology, Group Lead Neuro/Immunology Stem Cell Model Development, **Merck** **Arpita Kulkarni**, Associate Director, **Single-Cell Core, Harvard Medical School** **Priya Chockalingam**, Vice President, Head of Clinical Bioanalytics & Translational Sciences, **Beam Therapeutics** **Vineeth Raghuram**, Senior Scientist I, **AbbVie**	**Spatial Proteotranscriptomic Integration to Reveal Therapeutic Resistance Mechanisms in Cancer** **Martin Hemberg**, Assistant Professor of Immunology, **Brigham and Women's Hospital**	**Using Immunotherapy Earlier to Target a Genetic Mutation: Most Promising Experimental Rectal Cancer Treatment** **Andrea Cercek**, Medical Oncologist, Founder and Co-Director, Center for Young Onset Colorectal and Gastrointestinal Cancer, **Memorial Sloan Kettering Cancer Center**		
15:40	**CLOSE**								