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

TIME	
08:55	**Plenary Keynote Sessions**
09:00	**Opening Remarks:** **At The Forefront of Genomics: Making Genomic Medicine a Reality** **Eric Green**, Former Director, **NHGRI** **PANEL: Responding to a New Reality** **Eric Green**, Former NHGRI Director **Anthony Monaco**, University Professor & President Emeritus, **Tufts University** **Stacey Gabriel**, Executive Vice President of Platforms and Scientific Execution, **Broad Institute of MIT and Harvard**
09:30	**Moderated by: Kai Wenzel**, Professor of Mindful Health, **Harvard Medical School** **From Algorithms to Advancing Care: Lessons Learned Innovating in Genomic Diagnostics & Discovery** **Jack Dibiasceca**, Chief Science Officer, **Veloxa**
10:00	*Sponsored by:* Veloxa
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 & EPITHIAL STAGE	PROTEOMICS STAGE	CANCER DIAGNOSTICS STAGE	GENOME DOME	ROOM 50	ROOM 51
11:30	SEQUENCING INNOVATIONS	SPATIALLY RESOLVED MOLECULAR PROFILING	AI IN DRUG & DISEASE DISCOVERY	PROMISE DATA TO DISCOVERY	SINGLE CELL OR TISSUE BIOMARKERS	PROTEIN DISCOVERY FOR THERAPEUTICS	CANCER DIAGNOSTICS AND PROGNOSIS	ROUND TABLE DISCUSSION	WORKSHOP	WORKSHOP
11:30	PANEL: Sequencing in 2024 and Beyond **Niall Lennon**, Senior Director, Genomics Platform, **Broad Institute** **Chris Hartman**, Chief Scientific Officer, **Illumina** **Gary Gomes**, Director of Genetics, Yale Genome Analysis Center, **Yale University**	**How to Effectively Integrate Multi-Omic Data to Model Gene Regulatory Networks** **Kimberly Glass**, Assistant Professor of Medicine, Training Director of Network Medicine, **Brigham and Women's Hospital and Harvard Medical School** **More details to be announced shortly** *Sponsored by:* Genseq	**Leveraging Advanced AI/ML to Accelerate Drug Discovery: From Target Identification to Disease Indications and Patient Stratification** **Anastasia de Rosalia**, Global Head of Target Discovery & Systems Biology, **Sanofi**	PANEL: Scaling Big Genomics Data to Support Drug Development **Victor Zhang**, Associate Director, Data Science, **GSK** **Hulefeld**, Associate Director, Data Science, **Novartis** **Yuguo Jiang**, Head of Bioinformatics Engineering, **Alnylam Pharmaceuticals**	**Identifying Novel Targetable Pathways/Biologics with Single Cell Atlases** **Saurabh Vishnu Ladha**, Principal Scientist Genetics, **Janssen & Johnson Innovative Medicines** *Sponsored by:* *Parse Biosciences*	**Proteomics at Scale: Big Studies, Big Data and Even Bigger Opportunities** **Benjamin Sun**, Director and Head of Population Health Omics, **GlaxoSmithKline** **Melissa Miller**, Senior Director, Human Genetics, **Pfizer** **Sanja Ilic**, Senior Director, Center of Genomics Research, Discovery Biology, **BMS** **AstraZeneca**	**Application of AI and Multi-Omic Data Science to Better Early Cancerogenic Signatures and Improve Cancer Prognosis** **Shanthi Somayajulu**, Senior Scientist & Group Leader, Computational Biology & Genomic Data Science, **Imperial College London**	**MONITORING DISCUSSION: Building Inclusivity and Trust in Genomics** • How can we improve inclusivity in Omics research to ensure equitable access to genetic technologies and enhancing personalized medicine at the personal, local? • What are the barriers preventing diverse communities from participating in genomics research, and how can we address them to ensure inclusive benefit? • How can research teams ensure genetic research within minority populations, especially considering past ethical violations and mistrust challenges? • What are the best practices for educating communities about genetic research to foster informed participation at a genuinely local level? • How can researchers, educators, and community leaders work together to increase participation in genomics research, ensuring that communities feel they benefit, rather than just contribute? • What steps can be taken to maintain inclusivity and equitable access to genetic technologies, ensuring sustained community involvement? **Elizabeth Ofili**, Professor of Medicine, Director and Senior Associate Dean, **Morehouse School of Medicine** **Angelina Torres-Berrio**, Director of the Rosalind Franklin Fellowship, **Leslie Dan Faculty of Pharmaceutical Sciences, Toronto**	**WORKSHOP: Marketing Spatial Biology Analytics: From Basics to Cutting-Edge Innovation** This workshop is designed to provide a comprehensive overview of spatial biology and analytics, 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 AI-driven analytics and visualization techniques. The session will also provide participants with the concepts learned to real-world datasets. **Ahuli Suman Suresh**, Associate Professor, Integrative Physiology, **Baylor College of Medicine** **Ilya Korsunsky**, Principal Investigator, **Brigham and Women's Hospital**	
12:00			**Advancing Target ID & Validation in AML: Elucidate Helps Identify Novel Target, Advances to Trials** **Abhishek Jha**, CEO, **Elucidate** *Sponsored by:* *Elucidate*	**A Modern Data & Compute Solution for Genomics Data** **Kyle Gillis**, Chief Operating Officer, **LatchBio** *Sponsored by:* *LatchBio*	**Redefining Single Cell RNA Sequencing Limits with Xenium™ Combinatorial Barcoding** **Charlie Roco**, CTO and Co-Founder, **Parse Biosciences** *Sponsored by:* *Parse Biosciences*		**Application of AI and Multi-Omic Data Science to Better Early Cartenogenic Signatures and Improve Cancer Prognosis** **Shanthi Somayajulu**, Senior Scientist & Group Leader, Computational Biology & Genomic Data Science, **Imperial College London**			
12:30		**AI-Powered Artificial Intelligence (AI) Platform Revolutionizes Multi-Omic Data Integration and Prediction Accelerating for Subgroup Heterogeneity** **Sandra Calvo**, Associate Professor, Division of Biostatistics & Health Data Science, **University of Minnesota**	**Target Identification and Validation with Omic Research FAIR Data Lakes** **Marcin von Grotthuss**, Director Computational Genomics & Analytics, **Takeda Pharmaceuticals**	**Using Million Veteran Program Data to Improve Health Care in the Healthcare of Veterans** **Jason Vassy**, Associate Professor, Director, **Harvard University, Genomics@Veterans**	**How to Repurpose Drug using Single Cell and Spatial Transcriptomics** **Lana Garmire**, Associate Professor, **University of Michigan**	**Mass Spectrometry based Proteomics From Single Cells to Clinical Applications** **Judith Storm**, Director of the Neuroproteomics Laboratory, **Boston Children's Hospital**	**Integrating Data to Uncover Molecular Mechanisms of Cancer Development and Drug Resistance Profiles** **Irina Pushina**, Senior Research Associate, **Children's Mercy Research Institute**	**Advancing Precision Medicine in Breast Cancer: Targeting Resistance Mechanisms and Biomarkers** **Adrian Lee**, Director, Institute for Precision Medicine, **UPMC, University of Pittsburgh**		

TIME	
13:00	**LUNCH & LIVE LOUNGE TALKS**
13:05	**More details to be announced shortly** *Sponsored by Bioinnovo Cluster*
13:20	**Mapping Cancer Resistance with High-Resolution Spatial Transcriptomics** **Oriol Gallé Ballle**, Team Lead R&D, **Single Cell Discoveries** *Sponsored Single Cell Discoveries*
13:35	**Removing the Barriers of Automated DNA Extractions** **Brandon Coppens**, Product Manager, **Omega Bio-tek** *Sponsored by Omega Bio-tek*
13:50	**More details to be announced shortly** *Sponsored by Telomeda*
14:05	**NETWORKING BREAK**

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14:10	LONG-READ SEQUENCING	MULTI-OMICS INTEGRATION FOR PATIENT DATA ANALYSIS	AI IN TARGET IDENTIFICATION & VALIDATION	BIG DATA FOR AND IMPROVING CANCER OUTCOMES	APPLICATIONS OF SINGLE CELL DATA AND NGS	CLINICAL PROTEOMICS AND BIOMARKER RECOVERY	ADVANCED IN LIQUID BIOPSY DIAGNOSTICS & PROGN.ING	ROUNDTABLE DISCUSSION	WORKSHOP	
14:10	**Exploration of Transcriptomic Diversity Using Long Read Sequencing** **Daniel Lu**, Principal Bioinformatics Scientist, **Biomodal**	**How to Use Directional Multi-Omics Data Fusion for Gene Prioritization and Pathway Enrichment Analysis** **Jiali Kemmeren**, Principal Investigator of Computational Genomics, **Sanofi** **The Climate Institute of Technical University (ZIKTU)** Associate Professor, **University of Toronto**	**The Promise of AI/ML for Preclinical Drug Discovery** **Brandon Probst**, Vice President, Biology, **Recursion**	**Large Scale Population Genetics Informating Comment & Rare Disease Drug Discovery** **Guillermo del Angel**, Executive Director, Genome Data Science, **AstraZeneca**	**Single-Cell Sequencing to Evaluate AMR-CDI Risk: Informed Care, Post-to Mechanism PTMs/O-antibiotic Driving Gut/Immune Immunity** **Ajit Hallwell**, Group Lead, Biology Biochemistry, Immunomicrobiology **Abhishek Bhattacharjee**	**Using High Throughput Affinity Proteomics to Develop a Proteomic Aging Clock** **Reena Sahar Ekin**, Associate Professor, **University of Connecticut**	**Discovering cfDNA Methylation Alternatives for Liquid Biopsy based Cancer Detection and Monitoring** **Reshmi Sethia**, Inaugural Genito Chair of Cancer Biology, **University of Southern California**	**ROUNDTABLE DISCUSSION: AI in Healthcare Transformation** AI is transcending the realm of Tuesaweeks to become a powerful companion in modern medicine. It has the potential to uncover intricate disease patterns, accelerate diagnostics, and tailor treatments to human health complexities 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, making it more efficient, accessible, and effective. This roundtable will delve into the latest advancements in AI technology and explore how these innovations are the future of healthcare. **David Sikkes**, Professor of Medicine, **Harvard Medical School** **Arvind Ram**, Associate Professor Computational Medicine & Bioinformatics, **University of Michigan Ann Arbor** **Zhandong Liu**, Chief of Computational Sciences, Director of Bioinformatics, Dedicated Chair, Assistant Professor in Pediatrics, **Baylor College of Medicine** **Jason Johnson**, Senior Vice President, Chief Data and Analytics Officer, **Swiss Parker Cancer Institute**	**WORKSHOP: Computational Biology Upskilling** As we are entering many people pivot their career and step into the exciting world of data science, our Computational Biology Upskilling discussion aspires you to share your journey, challenges and opportunities in transition into this high-demand field. You will be able to ask your burning questions to professionals who have made the transition, and learn how to upskill and build a strong portfolio and network effectively. **Tuong Tang**, Director, Bioinformatics, **AstraZeneca** **Dean Lee**, Senior Director, Genomics, **Novartis**	
14:40			**Sponsored slot available** PANEL: Empowering Four AI Applications in Therapeutic Target Discovery **Manej Kandpal**, Director of Research Bioinformatics, Center for Clinical and Translational Science, **Rutgers Robert Wood Johnson University** **Michael Steinbaugh**, Director, Data, AI & Genome Sciences, **Merck** **Shannon Khader**, Executive Director, Precision Medicine and Computational Biology, **Sanofi** **Simona Colaiacovo**, Head of Genomics and ai, **Swiss Parker Cancer Institute** **Bhavan Al-Jashkani**, Director of Therapeutic Data Science and Professor of Genomic Medicine, **The University of Texas MD Anderson Cancer Center**				**Using High Throughput Affinity Proteomics to Develop a Proteomic Aging Clock** **Reena Sahar Ekin**, Associate Professor, **University of Connecticut** *Sponsored by:* *Olink Proteomics*		**Sponsored slot available**			
15:10		**Applying Multi-Omics Data Integration with Knowledge Graphs and Network Analysis to Identify New Targets** **Bina G.**, Senior Director, Computational Biology, **Takeda**				**Proteogenomic Analysis of Human Colon Tumorigenesis Reveals Targets** **Sohan Vrishan**, Associate Director, **Pfizer**	**Modulating the Biology of cfDNA for Improve Liquid Biopsies** **Viktor Adalsteinsson**, Director, Genome Center for Cancer Diagnostics, **Broad Institute**			

TIME	
15:40	**NETWORKING BREAK**

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16:10	GENOMIC TECHNOLOGIES FOR STEP IN PATHOLOGY	OMICS IN CLINIC DISCOVERY	INNOVATIVE & GENERATIVE AI APPLICATION	BRIDGE TO STORAGE, INTEGRATION AND ACCESS	ADVANCES IN SINGLE CELL AND SPATIAL OMICS	PROTEIN DISCOVERY	MAPPING TUMOR CITY AND HETEROGENEITY IN LIQUID BIOPSY ANALYSIS	ROUND TABLE DISCUSSION		
16:10	**Technology is Not always The Answer: Genomics Can Help More People Now** **Ana Cohen**, Assistant Director, Clinical Molecular Genetics Lab, Genomics Institute for Kids, Genomic Medicine Center, **Children's Mercy Kansas City**	**Leveraging Deep "Omics" and ML Integration to Uncover Disease Relevant Signatures** **Deepak Jha**, Senior Director, **Genome Sciences**	**Applying Foundation Models and Generative AI for Drug Design and Discovery** **Anshul Kundaje**, Director of Machine Learning, **AstraZeneca**	**Harnessing Multi-Omic Cancer Data with the Genomic Data Commons (GDC): An Impactful Discovery Tool for Cancer Prognosis and Response to Therapy** **David Haussler**, Project Director, Genome Data Commons, **NCI**	**Harnessing Multi-Omic Multi-Spatial Multimodal Spatial to Model the Tumor Microenvironment** **Kristy Yamay**, Principal Investigator and Assistant Attending Computational Oncologist, **Memorial Sloan Kettering Cancer Center**	**Finding Actionable Therapeutic Vulnerabilities in Breast Cancer Using Proteomics** **Jule Lang**, Cocuaders Cancer Biomarkers Programme, **Cleveland Clinic**	**Leveraging a Multi-Omic Approach in Liquid Biopsy Cancer Detection and Profiling** **Astrid Deschaine**, 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 translational research. The discussion will also look at how these advances can enhance translational medicine address pathologist workflow challenges, this technology has also the potential to consider the evolving role of pathologists in delivering precision medicine and assessing biomarker for companion diagnostics. **Uma Sanna**, Digital Pathology, Computational Biology, **Bristol Myers Squibb** **Qing Li**, Associate Medicine **Jim Ackerdey**, Associate Director, Computational Biology, **Broad Institute of MIT and Harvard**	**ROUNDTABLE DISCUSSION: Sustaining Innovation: Rethinking Genomics Funding for the Long Haul** This roundtable brings together academic researchers and industry leaders to explore the future of funding in U.S. genomics and life sciences. With both serious and lighthearted perspectives, we'll discuss sustainable models for smarter, more collaborative funding strategies in practice. We will examine how academia and industry can align to close translational gaps, co-develop early-stage innovations, and leverage shared infrastructure to accelerate genomics discovery, development, and delivery. **Chandana Hajee**, Executive Director, **Altitude Lab** **Niall Lennon**, Senior Director, Genomics Platform, **The Broad Institute of MIT and Harvard** **Milan Jain**, Assistant Professor Engineering and Physics, **Northeastern University**	
16:40			**Sponsored slot available** Foundation Models for Learning Cancer Progression and Drug Response **Gamze Gürsoy**, Head of Genomics and ai, **Swiss Parker Cancer Institute**	**More details to be announced shortly** *Sponsored by:* *Bioteam*	**A Scalable Platform for Simultaneous Single-Cell Imaging and Sequencing** **Caroline Kartan**, Director, Application and Assay Development, **PlexDx Inc.** *Sponsored by PlexDx Inc.*	**Using Integrative Proteogenomic Analysis to Identify New Druggable Pathways for Cardiometabolic Disease** **Sumit Pandey**, Assistant Professor, **McGill University**	**Embracing the Power of Liquid Biopsy through Genome-Wide Methylation Profiling** **Chenran Li**, Postdoctoral Fellow, **National Cancer Institute** *Sponsored by:* *Illumina*				
17:10		**Integrating Knowledge Graphs into Foundation Models to Enhance Immunotherapy Response Biomarkers in Cancer** **Connor Kerner**, Associate Director, Computational Biology, **Tess Pharmaceuticals**	**Utilizing Foundation Models to Evaluate Immunotherapy Resistance Mechanisms in Cancer** **Connor Kerner**, Associate Director, Computational Biology, **Tess Pharmaceuticals**	**Advancing Alzheimer's Research through Integration of Multi-Omic Data in AD Knowledge Portals** **Li Gan Wang**, Co-Director, Stem Neurodegeneration Genomics Center, University of Pennsylvania			**Computational Methods for Large-Scale Proteogenomic Data Analysis** **Gil Alterovitz**, Director of Computational Informatics, **Broad Institute**	**Leveraging NGS in Clinical Development for Solid and Liquid Biopsies** **Dieter Hoemen**, Head of Translational Medicine Oncology, **NGS, AstraZeneca**				

TIME	
17:40	**DRINKS RECEPTION** *Sponsored by Genetic Corporation*
19:10	**CLOSE**

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

TIME	
08:55	**Plenary Keynote Sessions**
09:00	**Opening Remarks:** **Catching the Floating DNA Around Us** **Carl Zimmer**, New York Times Columnist and Author **The Power of Personalized Genomic Screening** **Robert Green**, Professor of Medicine, **Harvard Medical School** **Unlocking Data, Unlocking Treatments: AI in ALS** **Caroline Pardina**, Head of Health, **Challenge Works** **Pat Brazwell**, CEO, **SFORD Brain Project**
09:15	**Using Advanced Molecular Diagnostics to Improve Risk Aligned Patient Care and Outcomes** **Matthew Goldberg**, M.D., FAAD, Senior Vice President, Medical, **Castle Biosciences**
09:30	*Sponsored by Castle Biosciences*
09:45	**PANEL: Reimagining Healthcare by Bridging the Gap between Innovation and Patient Impact** **Nicole Renaud**, Director – Global Co-Lead of Human Genetics & Targets, **Novartis** **Jeff Ferd**, Vice President, R&D Chief Data Officer, **Genmarque** **Joseph Marasciulo**, Executive Director, **Bristol Myers Squibb** **Melissa Miller**, Senior Director, Human Genetics, **Pfizer**
10:15	
11:00	**NETWORKING BREAK**

TIME	INNOVATION STAGE	MULTI-OMICS STAGE	AI IN DRUG DISCOVERY STAGE	BIODATA STAGE	SINGLE-CELL & EPITHIAL STAGE	PROTEOMICS STAGE	CANCER DIAGNOSTICS STAGE	GENOME DOME	ROOM 50	ROOM 51
11:30	EPIGENETICS	ONCO/HISTOPATHOLOGY DISCOVERY	BEYOND PROOF OF CONCEPT	HANDLING BIG OMICS DATA IN PHARMA	SPATIAL DATA MODELLING	TRANSLATIONAL PROTEOMICS	CANCER DIAGNOSTICS STAGE	ROUNDTABLE DISCUSSION	WORKSHOP	WORKSHOP
11:30	**The Development of Epig-Related DNA Methylation Derived Predictors of Phenotypic Traits** **Andrea Cardenas**, Assistant Professor, **Stanford University**	**Clinical Proteomics and Metabolomics in Biopharma Drug Discovery and Development** **Sergio Ayala**, Senior Director, Head 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**	**TabDeep: A Foll-Multi Omics Data Management and Analytics Platform** **Felix Franks**, Senior Director, Data Science, **Takeda**	**How to Use Machine Learning Approaches to Interpret the Tumor Microenvironment Using Spatial Proteomics Data to Inform Immunotherapies for Personalized Medicine** **Aarati Rao**, Professor of Computational & Biomedicine, **University of Michigan Ann Arbor**	**Supporting Clinical Trials with High-Throughput Proteomic Profiling** **Jessica Maddox**, Associate Director, **Novartis**	PANEL: Facing the Way Towards Liquid Prot. Challenges, Opportunities and Reality **Lauren Lehman**, Senior Director, **AstraZeneca** **Fabian Radtke Probst**, Senior Director, **AstraZeneca** **Aleksandra Markowska**, Senior Director, **AstraZeneca**	**WORKSHOP: Enhancing Variant Interpretation** Clinical interpretation of DNA sequence variants is a crucial part of expanding the genetic testing. The use of NGS has greatly advanced the diagnosis of rare genetic disorders, however a significant number of DNA sequence variants identified in samples, including many that are novel, presents significant challenges to clinical interpretation. This workshop will help develop and improve participants' skills and knowledge for interpreting genetic variants, including identification, classification, clinical relevance and utilizing relevant tools and resources. **Heidi Stuhm**, Co-Director, Molecular Genetics Laboratory, Medical Director, Clinical Sequencing Platform, **Broad Institute** **Liz Worthey**, Section Head, Genome Informatics, **Children's Mercy, GSK School of Medicine** **Sugeeth Balasubramanian**, Director, Computational Biology, **Regeneron**	**WORKSHOP: Crafting a Standout CV for U.S. Life Sciences Careers** In today's competitive U.S. life sciences job market, you don't just a list of roles—it's your first impression, your story, and your chance to stand out among highly talented candidates. Whether you're applying to biotech startups, pharma giants, research institutions, or transitioning from academia to industry, this hands-on workshop is designed to help you take your CV to the next level (make it 1-2 pages max). We'll cover what hiring managers and recruiters are looking for, how to tailor your resume for specific roles, negotiate without being lowball, and the nuances that differentiate a strong academic CV from one suited for industry roles. What You'll Learn: • How to structure a 1-2 page CV for life sciences roles • Key differences between industry and academic CVs • How to highlight research, technical skills, and achievements for academic and non-academic roles • Where to cut, what to keep, and how to tailor for specific roles • How to integrate soft skills, publications, and impact metrics effectively **Laura L. Stark**, Associate Director Recruitment Centers, **Genentech/Roche**	
12:00			**More details to be announced shortly** *Sponsored by:* *Omnium Biosciences*	**More details to be announced shortly** *Sponsored by:* *Origin Bioworks*	**Unlocking the Secrets of Data Challenges and Solutions in the Discovery Value Chain** **Jitesh Kumar Pillai**, Group Head, Program Management – Genomics & Biomarkers, **Roche** *Sponsored by:* *Evotec*	**Advancing Trace Biology Research with Western Blots for Spatial Multi-omics** **Chris Ott**, **Aspect Analytics** *Sponsored by:* *Aspect Analytics*	**Advancing Early Target Discovery through Proteomics Profiling and Functional Genomics Integration** **Joshua Dixon**, Senior Principal Pharmacological Genetics, **Pfizer**	**Next-Generation MRD Assays: Do We Have the Tools to Evaluate Their Prospects?** **Hugh Rowan**, Director, cfDNA Biology (Genentech), Clinical Molecular Development, **AstraZeneca**	**More details to be announced shortly**			
12:30		**Harnessing Epigenetics to Contact Chemoresistant Cancer Cells** **Neha Shendy**, Senior Vice Pres, Head of Epigenetics, **St. Jude's Research Hospital**	**The Power of Scaling and Deepening Datasets to Drive Medicines of the Future** **Gonzalo Almunia**, Vice President and Chief Genomics and Data Officer, **Regeneron**	**Phenomic Foundation Models for Drug Discovery** **Sofiya Zaik**, Associate Director, Data Science, **Recursion**	**Novel Spatial Molecular Pathology Approaches to Understand Disease Pathophysiology and Support Drug Discovery** **Silvia Giax**, Associate Director, **AstraZeneca**	**Exploring Organ Crosstalk in a Model for Atherosclerosis using Comprehensive Plasma Proteomics** **Sonia Singh**, Director of Proteomics Research, **Brigham and Women's Hospital**	**Multi-omic Analyses of CTCs for Cancer Profiling and Diagnosis** **Sarah Wyngaarden**, Physician Scientist and Radiation Oncologist, **Massachusetts General Hospital**			

TIME	
13:00	**LUNCH & LIVE LOUNGE TALKS**
13:05	**More details to be announced shortly**
13:15	**More details to be announced shortly**
13:25	**More details to be announced shortly**
13:35	**More details to be announced shortly**
13:45	

TIME	INNOVATION STAGE	MULTI-OMICS STAGE	AI IN DRUG DISCOVERY STAGE	BIODATA STAGE	SINGLE-CELL & EPITHIAL STAGE	PROTEOMICS STAGE	CANCER DIAGNOSTICS STAGE	GENOME DOME	ROOM 50	ROOM 51
13:50	V-OMINT SEQUENCING	NGS & ANCIENT DNA, NGS	AI IN STRATEGIES & PROTOCOLS IN PATHOLOGY DISCOVERY	POPULATION SCREENING & PSYCHIATRY/ETH	IN VIVO/IN VITRO SINGLE CELL, SPATIAL & NEW OMICS	SPATIAL OMICS AND SPATIAL PROTEOMICS	PRECANCER/CANCER	HORIZONTAL DISCUSSION	WORKSHOP	HORIZONTAL DISCUSSION
13:50	**Ten Genomes for Non-Harassing Population Screening: Ancestry Informed Target Discovery in Complex Disease** **Paola Bronson**, Associate Director, Applied Genetics, Human Genetics and Genomics, **GSK**	**Dissecting Tumor Immune Dynamics in Melanoma Through Multimodal Data Integration** **Giuseppe Tarabichi**, Assistant Professor, **Harvard Medical School**, Computational Biologist, **Dana Farber Cancer Institute & Broad Institute of MIT and Harvard**	**Accelerating Genomic Data Science through Composable AI/ML Bioinformatics** **Reese Adamson**, Assistant Professor of Genomics and Computational Biology, **UMass Chan**	**Harnessing Population Scale Medical Genomics Data from the 23 of Us Researcher Workbench and NCBI's SRAS/ISO Program for Precision Health** **Eric Venner**, Director, Clinical Informatics, Human Genetics Initiative, Assistant Professor, **Baylor College of Medicine**	**High Throughput Screening of TME Hypothesis to Discovery Drug Using cfRNA-seq and Spatial Data** **Dean Sun**, Senior Expert I, **Novartis**	**Developing a Spatial Analysis Toolbox for Early Drug Discovery using Tissue Proteomics and Transcriptomics** **Vinesh 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 critical 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 innovations being research and deployed? How are new sequencing technologies changing the landscape? How is genomic sequencing enabling personalized treatments, for cancers and rare diseases? How is genomic sequencing influencing early detection, diagnosis and prevention? Can GWAS-type studies adding tools to integrate into genomic sequencing for early disease detection and diagnosis? What does the future of genomic sequencing look like? Can we integrate genomic sequencing techniques to have more accurate diagnosis and outcomes? **Josh Finnerty**, Senior Scientist, Genomics Systems Immunology, **Pfizer** **Midhat Farooqi**, Director, Molecular Oncology & Professor of Pathology, **University of Missouri Kansas City School of Medicine** **Milan Jain**, Assistant Professor Engineering & Physics, **Northeastern University** **Kannan Sharma**, Director of Genetic Counselor, **Shriners Children's**	**WORKSHOP: How to Better Communicate Your Unique Value Proposition (UVP) and Stand Out** This workshop will present an overview of the computational workflow involved in processing cfDNA very data. It will have hands-on demonstration of the most common tools and file tools available for addressing various biological questions. The workshop will also provide a brief introduction to the concepts of performing computational analysis. The tutorial provides a hands-on guide for experimentalists, bioinformaticians, and data scientists, with an emphasis on bioinformatics coding to develop new computational methods. **Kristin Ostdiek**, Computational Scientist 1, **Genentech** **Mary Piper**, Senior Principal Scientist, **Pfizer** **Marcin Wilczynski**, Associate Director, **Harvard Chan Bioinformatics Core** **Shalini Sahlotra**, Principal Machine Learning Research Scientist, **AbbVie**	**ROUNDTABLE DISCUSSION: Driving Innovation in Genomics Medicine for Broader Implementation** **In this roundtable discussion, uncover answers to pre-related questions, including:** **What genomic and data analytics advancements are needed to accelerate precision medicine?** **How is clinical genomic 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 Kasif**, Assistant Professor, Computer Science & Biomedical Oncology, **MD Anderson Cancer Center** **Winston Hide**, Director, Precision RNA Medicine Chair, **Beth Israel Deaconess Medical Center** **Kazimiera Wiewiorowski**, Associate Director, Clinical Genomics & Molecular Diagnostics, **MSLongmire** **Jan Hung**, Associate Professor of Pathology, **Harvard Medical School & Director**, Detection Lab, Precision RNA Medicine Chair, **MGBAC**	
14:20			**AI/ML Algorithms for Disease Subtyping and Patient Stratification Toward Personalized Medicine** **Amar Patwardhan**, Director - Bioinformatics & Computer Vision, Oncology/R&D Data Sciences, **AstraZeneca**	**Big Data to Improve Cancer Outcomes** **Robert Klein**, Associate Professor, Genetics and Genomic Sciences, **Icahn School of Medicine at Mount Sinai**	**Single Cell and Spatial Transcriptomic Analysis to Understand Metastatic Progression in Colorectal Cancer** **Kristin Beaumont**, Assistant 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 Newmann**, Assistant Professor, **UC Davis**				
14:50			**PANEL: How to Integrate Single Cell and Spatial Bioanalytical Single-Omic Challenges and Innovations** **Rebecca Mathew**, Principal Scientist, Discovery Biology, Lead Novo/Chromosome Single Cell Omics Platform, **Novo Nordisk** **Sepideh Sadeghi**, Senior Principal Scientist, Single Cell Genet, **Novartis Biomedical Research** **Priya Chandran**, Vice President, Head of Translational Bioanalytics & Translational Sciences, **Bayer Therapeutics** **Vinesh Raghuram**, Senior Scientist I, **AbbVie**	**Automated Real World Data Integration Improves Cancer Outcomes Prediction** **Nikolaos Schaltis**, Director, Cancer Data Science Initiative, **Memorial Sloan Kettering Cancer Center**		Spatial Proteotranscriptomics Integration to Reveal Therapeutic Resistance Mechanisms in Cancer **Martin Hemberg**, Associate Professor of Immunology, **Brigham and Women's Hospital**	**Using Immunology Earlier to Target a Genetic Mutation Driven Forming Experimental Rectal Cancer Treatment** **Andrea Cercek**, Medical Oncologist and Co-Director, Center for Young Onset Colorectal and Gastrointestinal Cancers, **Memorial Sloan Kettering Cancer Center**				

TIME	
15:20	**MYSTERY SPEAKER TO BE ANNOUNCED SHORTLY**
16:00	**CLOSE**