

Date	Time	Track	Presentation Title	Speaker
20-Apr	12:00 - 12:45 AM	Genomics	Application of Long-read Sequencing in Human Genetics	Tychele Turner, Ph.D. Assistant Professor, Department of Genetics, Washington University in St. Louis
20-Apr	12:00 - 12:45 AM	Genomics	Cell type-specific vulnerability to traumatic brain injury	Araks Martirosyan, Ph.D. Sr. Postdoctoral Researcher Laboratory of Glia Biology, VIB-KU Leuven Center for Brain and Disease Research
20-Apr	12:00 - 12:45 AM	Genomics	Deciphering Brain Mosaicism with Long-read Sequencing	Tracy Bedrosian, Ph.D. Principal investigator, Nationwide Children's Hospital; Assistant Professor of Pediatrics, The Ohio State University College of Medicine
20-Apr	12:00 - 12:45 AM	Genomics	Defining Cellular Heterogeneity and Cell-Type Specific Pathogenesis in the Retina Using Single Cell RNA-Sequencing	David Simpson, PhD Reader, Wellcome-Wolfson Institute for Experimental Medicine, Queen's University Belfast
20-Apr	12:00 - 12:45 AM	Genomics	Developing disease insights with genotype-specific regulatory networks	John Platig, PhD Instructor, Channing Division of Network Medicine, Brigham and Women's Hospital, Harvard Medical School
20-Apr	12:00 - 12:45 AM	Genomics	Epigenetic Aging Studies in Mammals	Steve Horvath David Geffen School of Medicine, University of California, Los Angeles
20-Apr	12:00 - 12:45 AM	Genomics	Illuminating Biology with Spatially Resolved, Single-cell Transcriptomics	Jiang He Co-founder and Director of Scientific Affairs, Vizgen
20-Apr	12:00 - 12:45 AM	Genomics	Integrative Analysis of Single-Cell Combinatorial Long-Read RNA-seq and Single-Cell ATAC-seq in Myogenesis	Fairlie Reese, PhD Student Mortazavi lab, The University of California, Irvine
20-Apr	12:00 - 12:45 AM	Genomics	Long-read Genome Sequencing for the Molecular Diagnosis of Neurodevelopmental Disorders	Gregory Cooper, PhD Faculty Investigator, HudsonAlpha Institute for Biotechnology

20-Apr	12:00 - 12:45 AM	Genomics	Low error rate long-reads enable the identification of long variant haplotypes in metagenome assemblies	Derek Bickhart, PhD Research Microbiologist/Bioinformatician, US Department of Agriculture's Dairy Forage Research Center
20-Apr	12:00 - 12:45 AM	Genomics	Measurement of DNA Methylation and Nuclear Organization with Nanopore Sequencing	Roham Razaghi, PhD Candidate Department of Biomedical Engineering John Hopkins University
20-Apr	12:00 - 12:45 AM	Genomics	Practical Considerations and Best Practices for Single Cell and Spatial Transcriptomics	Neil Winegarden, MSc Staff Field Application Scientist, 10X Genomics
20-Apr	12:00 - 12:45 AM	Genomics	Sequencing the genome: from genotype to phenotype and a few extras in between	Rasika Mathias, ScD Professor of Medicine, Johns Hopkins, University Director of Genomics, GeneSTAR Research program, General Internal Medicine, Miller-Coulson Family Human Aging Project Scholar...
20-Apr	12:00 - 12:45 AM	Genomics	Sex, Gender, the Aging Lung: Epigenetic Findings in COPD	Dawn DeMeo, M.D., M.P.H. Associate Professor of Medicine, Harvard Medical School, Associate Physician, Brigham and Women's Hospital, Department of Medicine
20-Apr	12:00 - 12:45 AM	Genomics	Studying Promoter and Isoform Diversity with Long-Read Transcriptome Sequencing	Jonathan Göke Group leader, Genome Institute of Singapore
20-Apr	12:00 - 12:45 AM	Genomics	Telomere-to-Telomere Chromosome Assemblies: New Insights Into Genome Biology and Structure	Karen Miga, PhD Assistant Research Scientist; UCSC Genomics Institute, University of California, Santa Cruz
20-Apr	12:00 - 12:45 AM	Genomics	The Structure, Function, and Evolution of Human Chromosome 8	Glenn Logsdon, PhD Postdoctoral Research Fellow, Department of Genome Sciences University of Washington
20-Apr	12:00 - 12:45 AM	Genomics	Towards a Comprehensive Variation Benchmark for Medically-Relevant Autosomal Genes	Justin Wagner, PhD Computer Scientist, NIST

20-Apr	12:00 - 12:45 AM	Genomics	X Chromosome Factors that Contribute to Sex Differences in Disease	Arthur P. Arnold, PhD Distinguished Research Professor, Department of Integrative Biology & Physiology University of California, Los Angeles
20-Apr	06:00 - 07:00 AM	Genomics	Panel Presentation: Accelerating SARS-CoV-2 genomic surveillance with a new high-throughput NGS solution	Brian Dugan, M.S. Director, Global Product Management, Genomics QIAGEN Fernando Spikli, PhD Professor, Feevale University, Novo Hamburgo, Brazil
20-Apr	07:30 - 08:30 AM	Genomics	Keynote Presentation: A structural variation map of 499 Han Chinese individuals using long-read sequencing data	Fritz Sedlazeck, PhD Human Genome Sequencing Centre, Baylor College of Medicine
20-Apr	09:00 - 10:00 AM		Enhancer-Promoter Interactome Drives Neuronal Cell Differentiation and Contextualizes Alzheimer's Associated Polymorphisms	Cory Padilla, PhD Head of Scientific Affairs, Dovetail Genomics
20-Apr	12:00 - 01:00 PM	Genomics	High Viability Cell Sorting for Single-Cell 3' RNA-seq & 10x Genomics Applications	Nicole Jagnandan, PhD Application Scientist, NanoCollect Biomedical, Inc.
20-Apr	01:30 - 02:30 PM	Genomics	Panel Presentation: Attain successful single-cell sequencing results with the latest cell and nuclei isolation workflows	Alina Steinbach Product Manager for Flow Sorting at Miltenyi Biotec Carina Emery Product Manager for Sample Preparation at Miltenyi Biotec
20-Apr	03:00 - 04:00 PM	Genomics	Panel Presentation: Accelerating precision oncology with matched FFPE and plasma biospecimens characterized using Discovery's SpecimenSeq™ NGS Service and QIAGEN's QIAseq Multimodal Panels	Nathan Henson, MS Product Manager, Biospecimens and Cell Services, Discovery Life Sciences Donald Skifter, PhD, MBA Sr. Vice President, Genomics, Discovery Life Sciences
20-Apr	04:30 - 05:30 PM		Advancing AAV: Novel Synthesis and Sequencing Solutions for Gene Therapy Research	Andrea O'Hara, PhD Strategic Technical Specialist, GENEWIZ, A Brooks Life Sciences Company
20-Apr	04:30 - 05:30 PM	Genomics	High-throughput clinical and environmental viral extraction and sequencing.	Christopher E. Mason, PhD Associate Professor; Director, WorldQuant Initiative for Quantitative Prediction, Weill Cornell Medicine

21-Apr	12:00 - 12:45 AM	Molecular Diagnostics	A Saliva-Based RT-PCR SARS-CoV-2 Detection Assay: Development and Deployment	Suzie Alarcon, CGMBS, MB(ASCP) ^{CM} NGS Core Manager La Jolla Institute for Immunology
21-Apr	12:00 - 12:45 AM	Molecular Diagnostics	Flex Analysis: A Safe, Integrated and Flexible Approach to Non- Invasive Aneuploidy Analysis	Matthew C. Forman, PhD Head of Bioinformatics & Software, Yourgene Health
21-Apr	12:00 - 12:45 AM	Molecular Diagnostics	High Throughput Testing for SARS-CoV-2 and SNP Analysis for Variants of Concern	Richard Michelmore Distinguished Professor and Director, The Genome Center, Genome and Biomedical Sciences Facility, University of California, Davis
21-Apr	12:00 - 12:45 AM	Molecular Diagnostics	Hybrid Capture SARS-CoV-2 NGS Assay and COVID-Dx: a robust end to end solution for viral detection and surveillance of genetic variants	Mara Couto-Rodriguez Director of Research and Development, Biotia, Inc
21-Apr	12:00 - 12:45 AM	Molecular Diagnostics	Liquid Biopsy-based Detection of Early Stage Gynecological Cancers	Lesley Northrop, PhD, FACMG Chief Scientific Officer Aspira Women's Health
21-Apr	12:00 - 12:45 AM	Molecular Diagnostics	Past, Present and Future of Engineered Cell Therapy	Janani Krishnamurthy, PhD Director Drug Development City of Hope
21-Apr	12:00 - 12:45 AM	Molecular Diagnostics	Saliva - based testing for SARS-CoV-2 diagnosis	Orchid Allcock, PhD Postdoctoral Research Associate, Yale School of Public Health
21-Apr	12:00 - 12:45 AM	Molecular Diagnostics	Saliva pool testing: Fast, affordable, easy and highly accurate testing solution for returning back to school and work	Prem Premsrirut Co-Founder, President and CEO, Mirimus, Inc.
21-Apr	12:00 - 12:45 AM	Molecular Diagnostics	The Importance of Hybrid-capture Technology to Recognize and Characterize Viral Threats	Rebecca Nugent, PhD Senior Director of BioPharma Product Strategy Twist Bioscience
21-Apr	06:00 - 07:00 AM	Molecular Diagnostics	Keynote Presentation: High-throughput Diagnostics and Sequencing at the Pandemic Response Lab NYC	Jon M. Laurent, PhD Director, Pandemic Response Labs

21-Apr	07:30 - 08:30 AM	Molecular Diagnostics	Panel Presentation: Next-Generation Sequencing in the Global Response to the COVID-19 Pandemic	Eric Allen, MBA, M. Eng. Bioengineering Director, Bioinformatics, Illumina Michael Oberholzer, PhD Associate Director, Product Management Infectious Disease & Microbiology, Illumina
21-Apr	09:00 - 10:00 AM	Molecular Diagnostics	Supporting Biomarker Discovery One Cell at a Time - Single cell analysis solutions that drive results and insights	Joseph Pearson, PhD Global Product Manger
21-Apr	10:30 - 11:30 AM	Molecular Diagnostics	Panel Presentation: Driving lab efficiency with PCR power	Marija Navickaitė Product Manager, DNA Polymerases, Thermo Fisher Kyle Hondorp Sr. Product Manager, Thermal Cyclers & Plastics, Thermo Fisher
21-Apr	12:00 - 01:00 PM	Molecular Diagnostics	Directed evolution - shrinking the haystack with tailor-made synthetic DNA	Dr. Tobias Santl, PhD Formulation Manufacturing Manager, Gene Evolution Library Group
22-Apr	12:00 - 12:45 AM	Precision Medicine	An Introduction to Resources Facilitating Cancer Variant Interpretation	Beth Pitel, M.S., CG(ASCP)CM Assistant Professor and Senior Developer, Genomics Laboratory Mayo Clinic
22-Apr	12:00 - 12:45 AM	Precision Medicine	Efficient Implementation of DPYD Testing Using an Institutional Genetics Data Repository	Daniel L Hertz, PharmD, PhD Assistant Professor, University of Michigan College of Pharmacy
22-Apr	12:00 - 12:45 AM	Precision Medicine	Laboratory Implementation of Clinical Genomics in Children	Angshumoy Roy, MD, PhD Associate Professor, Department of Pathology & Immunology, Baylor College of Medicine Director of Cancer Genomics, Texas Children's Hospital
22-Apr	12:00 - 12:45 AM	Precision Medicine	Phenoconversion: The Achille's Heel of Personalized Medicine	Behnaz Sarrami, MS, PharmD Director of Consulting Missouri Pharmacogenomics Consulting, LLC
22-Apr	12:00 - 12:45 AM	Precision Medicine	Using AI and Predictive Algorithms to Help Advanced Cancer Patients Identify the Best Treatment Options	Kenny Wong, MS CGC Chief Product Officer, xCures

22-Apr	06:00 - 07:00 AM		Panel Presentation: Powering the precision in "precision medicine" - The role of curated data, databases and knowledge: Does a gold standard exist?	Dominic John VP, Marketing & Clinical Product Mgmt, Digital Insights Simon Forbes Head of COSMIC, Wellcome Sanger Institute, Cambridge, UK Shawn Bauer Director - Content Engineering, QDI Lisa Barrow-Laing Associate Staff Field Applications Scientist/Scientific Liaison
22-Apr	07:30 - 08:30 AM	Precision Medicine	Keynote Presentation: Moving Precision Medicine from 'Exotic' to 'Normal'	Dr. Howard L. McLeod, FASCO, FCCP Medical Director, Precision Medicine, Geriatric Oncology Consortium, Professor of Pharmacy and Medicine, University of South Florida Taneja College of Pharmacy
22-Apr	09:00 - 10:00 AM	Precision Medicine	Panel Presentation: DPYD Testing: Pharmacogenomics in a Clinical Setting	Holly Ellis, MSc, BA Registered Clinical Scientist, North West Genomic Laboratory Hub (Liverpool) Manchester Centre for Genomic Medicine Liverpool Women's Hospital Hannah Stevens, PhD Clinical Scientist, Genomics, North West Genomic Laboratory Hub (Liverpool)
22-Apr	10:30 - 11:30 AM		Extraction-free sensitive detection of viral RNA using direct RT-PCR chemistry	Donald Green Senior Field Application Specialist, Genomics and Diagnostics, Cytiva