



| Date   | Time                      | Track                       | Presentation Title                                                                                                                                             | Speaker                                                                                                                                                                                                  |
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| 19-Apr | 06:00<br>-<br>07:00<br>AM | Genetics<br>and<br>Genomics | High-sensitivity, Targeted NGS Variant Detection of Viral and Bacterial Pathogens: A Novel Solution for Healthcare and Environmental Surveillance and Research | Dylan Barbera<br>Global Product Manager, UNGS Genotyping                                                                                                                                                 |
| 19-Apr | 06:00<br>-<br>07:00<br>AM | Genetics<br>and<br>Genomics | KAPA HyperPETE: A Novel Primer Extension Target Enrichment Solution for Rapid and Reliable Variant Detection Results                                           | Brian Godwin, MS<br>Director, Reagent and Assay Development, Roche Sequencing Solutions                                                                                                                  |
| 19-Apr | 07:30<br>-<br>08:30<br>AM | Genetics<br>and<br>Genomics | Keynote Presentation: Ultra-Rapid Nanopore Whole Genome Sequencing in a Critical Care Setting                                                                  | John E. Gorzynski, DVM, PhD<br>Scientist, Stanford University                                                                                                                                            |
| 19-Apr | 09:00<br>-<br>10:00<br>AM | Genetics<br>and<br>Genomics | Keynote Panel Presentation: Towards Newborn Screening by Whole Genome Sequencing                                                                               | Stephen Kingsmore, PhD, MD<br>President and CEO, Rady Children's Institute for Genomic Medicine<br>Thomas Defay, PhD<br>Deputy Head, Diagnostics Strategy and Development, Alexion Pharmaceuticals, Inc. |
| 19-Apr | 10:30<br>-<br>11:30<br>AM | Genetics<br>and<br>Genomics | Panel Presentation: Attain Successful Single-cell Sequencing Results with the Latest Cell and Nuclei Isolation Workflows                                       | Alina Steinbach<br>Product Manager for Flow Sorting at Miltenyi Biotec<br>Carina Emery<br>Product Manager for Sample Preparation at Miltenyi Biotec                                                      |
| 19-Apr | 12:00<br>-<br>01:00<br>PM | Genetics<br>and<br>Genomics | Advances in Targeted Sequencing: Accelerate Your NGS Workflows with New QIAseq Chemistry                                                                       | Krishna Amin<br>Associate Director Global Product Management, Targeted Genomics, QIAGEN                                                                                                                  |
| 19-Apr | 12:00<br>-<br>01:00<br>PM | Genetics<br>and<br>Genomics | RT-LAMP: Best Practices and Tips to Accelerate Detection of Viral Pathogens, Including SARS-CoV-2                                                              | Ingrida Vendelè, PhD<br>R&D Manager for Molecular and Synthetic Biology, Thermo Fisher Scientific<br>Leann Buhrow, PhD<br>R&D Scientist, Molecular Biology, Thermo Fisher Scientific                     |

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| 19-Apr | 01:30<br>-<br>02:30<br>PM | Genetics<br>and<br>Genomics | Boosting Signal-to-Noise in Single Cell RNA-Seq Through Molecular Depletion                                                         | Dante DeAscanis<br>Research Associate II, Research & Development, Jumpcode Genomics                 |
| 19-Apr | 03:00<br>-<br>04:00<br>PM | Genetics<br>and<br>Genomics | Using NGS for MicroRNA and Gene Expression Analysis with Integrated Bioinformatics for Pathway Discovery and Biomarker Verification | Samuel Rulli, PhD<br>Senior Global Product Manager, RNA Profiling , QIAGEN                          |
| 19-Apr | 04:30<br>-<br>05:30<br>PM | Genetics<br>and<br>Genomics | Extracting Novel Hypotheses and Insights from Single Cell Data                                                                      | Jean-Noel Billaud, PhD<br>Senior Principal Scientist, QIAGEN Digital Insights                       |
| 19-Apr | 05:30<br>-<br>05:30<br>AM | Genetics<br>and<br>Genomics | Advances in High Throughput Proteomics using Next Generation Sequencing as a Readout                                                | Dale Yuzuki, M.A., M.Ed.<br>Director, Digital Strategic Marketing Communications, Olink Proteomics  |
| 19-Apr | 05:30<br>-<br>05:30<br>AM | Genetics<br>and<br>Genomics | Comprehensive Structural Variant Detection: From Mosaic to Population Level                                                         | Luis Paulin, PhD<br>Postdoctoral Fellow, Human Genome Sequencing Centre, Baylor College of Medicine |
| 19-Apr | 05:30<br>-<br>05:30<br>AM | Genetics<br>and<br>Genomics | Delivering Fast, Flexible Next-Generation Sequencing through Innovations in Chemistry and Engineering                               | Timothy Looney, PhD<br>Senior Director, Scientific Affairs at Singular Genomics                     |
| 19-Apr | 05:30<br>-<br>05:30<br>AM | Genetics<br>and<br>Genomics | Modelling the Accumulation of Mutations During Cancer Progression without Explicit Time                                             | Rebekka Burkholz, PhD<br>Faculty, CISPA Helmholtz Center for Information Security                   |
| 19-Apr | 05:30<br>-<br>05:30<br>AM | Genetics<br>and<br>Genomics | Quantitative and Spatial Differences in Host Response Dynamics to SARS-CoV-2 Variants of Concern                                    | Silvia Groiss, MSc, PhD<br>Diagnostic & Research Institute of Pathology, Medical University of Graz |
| 19-Apr | 05:30<br>-<br>05:30<br>AM | Genetics<br>and<br>Genomics | Rescuing Low Frequency Variants Within Intra-Host Viral Populations Directly from Oxford Nanopore Sequencing Data                   | Yunxi Liu<br>Treangen Lab, Rice University                                                          |
| 19-Apr | 05:30<br>-<br>05:30<br>AM | Genetics<br>and<br>Genomics | Scalable Pharmacogenetic Screening of the Complex CYP2D6 Locus Using SMRT Long-read Amplicon Sequencing                             | Jacob Munro<br>Bioinformatics Analyst, Bahlo Laboratory, Population Health & Immunity Division      |

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| 19-Apr | 05:30<br>-<br>05:30<br>AM | Genetics<br>and<br>Genomics | Using Gene Regulatory Networks to Understand Sex Differences                                                                                  | Camila Lopes-Ramos, PhD<br>Instructor, Harvard T.H. Chan School of Public Health, Fellow, Channing Division of Network Medicine, Brigham & Women's Hospital                                                                                                                                                                           |
| 19-Apr | 05:30<br>-<br>05:30<br>AM | Genetics<br>and<br>Genomics | Why Networks Matter                                                                                                                           | John Quackenbush, PhD<br>Professor of Computational Biology and Bioinformatics, Chair of the Department of Biostatistics, Harvard University, Dana-Farber Cancer Institute                                                                                                                                                            |
| 20-Apr | 07:30<br>-<br>08:30<br>AM | Molecular<br>Diagnostics    | Keynote Presentation: Laboratory Assessment of Covid-19 Immunity in Patients with a Cancer Diagnosis: Alpha to Omicron                        | Balazs Halmos, MD<br>Professor of Oncology and Associate Director of Clinical Research, Albert Einstein College of Medicine, Montefiore Medical Center                                                                                                                                                                                |
| 20-Apr | 10:30<br>-<br>11:30<br>AM | Precision<br>Medicine       | Keynote Presentation: Precision Medicine as a Population Health Tactic                                                                        | Dr. Howard L. McLeod, FASCO, FCCP<br>Medical Director, Precision Medicine, Professor of Pharmacy and Medicine                                                                                                                                                                                                                         |
| 20-Apr | 12:00<br>-<br>01:00<br>PM | Precision<br>Medicine       | Panel Presentation: Concept-to-Commercialization: Thermo Fisher's Unique Approach to Rapidly Advancing Your Antibody and Protein Therapeutics | Steve Lewis<br>Senior Product Manager, Thermo Fisher Scientific<br>Jeff Hou, PhD<br>Director Scientific & Technical Affairs, Thermo Fisher Scientific                                                                                                                                                                                 |
| 20-Apr | 01:30<br>-<br>02:30<br>PM | Precision<br>Medicine       | Panel Presentation: Curating the Genome to Drive Precision Diagnosis in Clinical Care                                                         | Mark Kiel, MD, PhD<br>Co-Founder and Chief Science Officer, Genomenon<br>Catherine Nester<br>Vice President of Physician and Patient Strategies, Inozyme Pharma                                                                                                                                                                       |
| 20-Apr | 05:30<br>-<br>05:30<br>AM | Precision<br>Medicine       | Aneuploidy on a Brush - A New Approach to Detecting Cancer and Pre-Cancers of the Esophagus                                                   | Joseph Willis, MD<br>Vice Chair of Pathology for Translational Research, Professor of Pathology, University Hospitals Cleveland Medical Center/Seidman Cancer Center, Case Western Reserve University/Case Comprehensive Cancer Center                                                                                                |
| 20-Apr | 05:30<br>-<br>05:30<br>AM | Precision<br>Medicine       | Improving Fetal Fraction of EDTA-Gel NIPS Samples Using Gel-Based Size-Selection                                                              | Dr François Rousseau, MD, MSc, FRCPC, FCAHS<br>FQR-S/MSSS/CHUQ Research Awardee in Health Technology Assessment and Evidence Based Laboratory Medicine, Professor, Department of Molecular Biology, Medical Biochemistry and Pathology at the Faculty of Medicine, Université Laval, Researcher, Centre de recherche du CHU de Québec |
| 21-Apr | 12:00<br>-<br>01:00<br>PM | Molecular<br>Diagnostics    | Recent Advances in Lyophilized qPCR Reagents                                                                                                  | Olivier Bricaud, PhD<br>Global Market Development Manager, Molecular Biology, Thermo Fisher Scientific                                                                                                                                                                                                                                |

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| 21-Apr | 05:30<br>-<br>05:30<br>AM | Molecular<br>Diagnostics | Advances in Liquid Biopsy Technologies                                                                 | David Spetzler, MS, MBA, PhD<br>President and Chief Scientific Officer, Caris Life Sciences                                                |
| 21-Apr | 05:30<br>-<br>05:30<br>AM | Molecular<br>Diagnostics | Hypoxia Biomarkers: Personalizing Cancer<br>Treatments by Targeting Hypoxia                            | Joely Irlam<br>Director, ManTRa Diagnostics Ltd, Research Associate, Department of<br>Translational Radiobiology, University of Manchester |
| 21-Apr | 05:30<br>-<br>05:30<br>AM | Molecular<br>Diagnostics | PTS-ID: Developing Precision Behavioral<br>Health Diagnostics for PTSD                                 | Tshaka Cunningham, PhD<br>Chief Scientific Officer, Polaris Genomics                                                                       |
| 21-Apr | 05:30<br>-<br>05:30<br>AM | Molecular<br>Diagnostics | Standardization of the Interpretation and<br>Reporting of Sequence Variants Identified<br>in Neoplasms | Nikita Mehta, MS, CGC<br>Senior Genetic Analysis Specialist, Memorial Sloan Kettering Cancer Center                                        |