



GENETICS & GENOMICS

LIVE VIRTUAL EVENT PRODUCED BY LABROOTS

| Date | Time | Track | Presentation Title | Speaker |
|--------|---------------------------|---|--|---|
| 10-May | 06:00 - 07:00 AM | | CATS - a novel library preparation method for ultrasensitive deep sequencing of extracellular circulating RNA and DNA | Andrey Turchinovich, PhD Postdoctoral Scientist, German Cancer Research Center, Heidelberg |
| 10-May | 06:00 - 07:00 AM | Single Cell Genomics | Developing bioinformatics approaches to understand the functional consequences of gene expression variability | Jessica C. Mar, PhD Assistant Professor, Department of Systems & Computational Biology, Assistant Professor, Department of Epidemiology & Population Health, Albert Einstein College of Medicine |
| 10-May | 07:30 - 08:30 AM | Precision Medicine | Enrichment of cffDNA and ctDNA via size selection for reduced diagnostic assay costs | Matthew Nesbitt, MSc President, Coastal Genomics |
| 10-May | 07:30 - 08:30 AM | | Tough Targets. Simple Genotyping. - New Solutions for CRISPR, Mitochondrial Disease, Neurology, and Pharmacogenetic Research | Dana Sullivan Product Manager, Canon Biomedical |
| 10-May | 09:00 - 10:00 AM | Gene Modifiers, Regulatory Elements and Disease Progression | Keynote Presentation: Using Networks to Understand the Genotype-Phenotype Connection | John Quackenbush, PhD Professor of Computational Biology and Bioinformatics, Chair of the Department of Biostatistics, Harvard University, Dana-Farber Cancer Institute |
| 10-May | 10:30 - 11:30 AM | Gene Therapy | Delivering on the promise of Personalized Molecular Medicine | Gordon B Mills, MD, PhD Department Chair, Department of Systems Biology, Division of Cancer Medicine, University of Texas MD Anderson Cancer Center |
| 10-May | 10:30 - 11:30 AM | Precision Medicine | Methods to account for sequencing artifacts in large high-throughput RNA-Seq data | Joseph Paulson, PhD Research Fellow, Dana-Farber Cancer Institute |

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| 10-May | 12:00 - 01:00 PM | Gene Therapy | Identifying genes "related to" or "specific for" a disease of interest | Philip Zimmerman, PhD CEO, Nebion |
| 10-May | 12:00 - 01:00 PM | Bioinformatics approaches | Not all variants are created equal: what went wrong in the prediction of functional effects of exomic variation | Yana Bromberg, PhD Associate Professor, Department of Biochemistry and Microbiology, Rutgers University |
| 10-May | 01:30 - 02:30 PM | Precision Medicine | Addressing "NGS Dead Zones" with Third-Generation PacBio Sequencing | Jonas Korlach, PhD Chief Scientific Officer, Pacific Biosciences |
| 10-May | 01:30 - 02:30 PM | Single Cell Genomics | Mapping Cell States from Single-Cell Gene Expression Data | Guo-Cheng Yuan, MD Associate Professor, Dept. of Biostatistics & Computational Biology, Dana-Farber Cancer Institute & Harvard T.H. Chan School of Public Health |
| 11-May | 06:00 - 07:00 AM | Precision Medicine | Precision Medicine in Juvenile Psychosis | Catherine Brownstein, PhD Instructor in Pediatrics, Boston Children's Hospital |
| 11-May | 06:00 - 07:00 AM | Gene Modifiers and Disease Progression | Transcriptome Analysis; Tackling core issues related to regulation & also mining the "data exhaust" of this activity | Mark B Gerstein, PhD Albert L. Williams Professor of Biomedical Informatics, Co-Director, Yale Computational biology and Bioinformatics Program, Yale University |
| 11-May | 07:30 - 08:30 AM | Precision Medicine | Keynote Presentation: Genomics in the clinic: A revolution for healthcare and medical research | Marcel Dinger, PhD Head, Kinghorn Centre for Clinical Genomics, Garvan Institute; CEO, Genome.One |
| 11-May | 09:00 - 10:00 AM | Precision Medicine | Keynote Presentation - Using network models to understand common complex disease predisposition and progression | Kenneth Buetow, PhD, FACMI Director of Computational Sciences and Informatics program for Complex Adaptive Systems and Professor in the School of Life Sciences, Arizona State University |
| 11-May | 10:30 - 11:30 AM | Gene Modifiers, Regulatory Elements and Disease Progression | Functional Characterization of Gene Regulatory Elements | Nadav Ahituv, PhD Professor, Department of Bioengineering and Therapeutic Sciences, Institute for Human Genetics, UCSF |
| 11-May | 10:30 - 11:30 AM | Gene Therapy | Rapid Whole Genome Sequencing in the NICU and PICU at Rady Children's Hospital | Shimul Chowdhury, PhD Clinical Laboratory Director, Rady Children's Institute for Genomic Medicine |

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| 11-May | 12:00 - 01:00 PM | Precision Medicine | Impact of Next-Generation Sequencing on Precision Medicine | Gary Schroth, PhD Vice President and Distinguished Scientist Illumina |
| 11-May | 12:00 - 01:00 PM | Gene Therapy | New multiplexed nCounter® PlexSet™ Reagents- an alternative to qPCR technology | Christian H Lytle the Molecular Biology Core Facility Manager, Geisel School of Medicine at Dartmouth |
| 11-May | 01:30 - 02:30 PM | Precision Medicine | Pandora's Genome: Making the Revolution Routine | Shane McKee, PhD Clinical Director, Belfatrust |