



# 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

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

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