

# GENETICS & GENOMICS

## MAY 9th-10th

### 2018



Date	Time	Track	Presentation Title	Speaker
9-May	06:00 - 07:00 AM	Structural Variation and Genetic Diversity	Genome in a Bottle: Developing Benchmark Sets for Structural Variants	Justin Zook, PhD Research Scientist, NIST
9-May	06:00 - 07:00 AM	Genomic Medicine	Point-of Care Genomics: A New Horizon in Personalized Healthcare	Marcel Dinger, PhD Head, Kinghorn Centre for Clinical Genomics, Garvan Institute; CEO, Genome.One
9-May	07:30 - 08:30 AM	Structural Variation and Genetic Diversity	Keynote Presentation: Informing Clinical Interpretations of Structural Chromosome Rearrangements: Implementing Evolving Knowledge from Chromatin Structure	Cynthia C Morton, PhD Professor, Harvard Medical School, Director of Cytogenetics, Brigham and Women's Hospital
9-May	09:00 - 10:00 AM	Genomic Medicine	Gene Expression Analysis - Critical Factors for Overcoming Challenges Using qPCR	Ina Scheuerpflug, PhD Director of Global Marketing, Life Science, QIAGEN Verena Schramm, PhD Global Product Manager, QIAGEN
9-May	09:00 - 10:00 AM	Metagenomics	NASA's GeneLab Project: Public Access to Spaceflight Omics Data	Sigrid Reinsch, PhD Scientist, Space Biosciences Research Branch, NASA
9-May	09:00 - 10:00 AM	Structural Variation and Genetic Diversity	Size Matters: Accurate Detection and Phasing of Structural Variations	Fritz Sedlazeck, PhD Lead Scientific Programmer, Baylor College of Medicine
9-May	10:30 - 11:30 AM	Structural Variation and Genetic Diversity	Finding Coherence in Chaos by Embracing Evolution and Complexity	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

9-May	10:30 - 11:30 AM	Genomic Medicine	The microRNA Regulatory Landscape of MSC-Derived Exosomes: A Systems View	Juliane Nguyen, PharmD, PhD Assistant Professor, Department of Pharmaceutical Sciences, School of Pharmacy and Pharmaceutical Sciences, University at Buffalo
9-May	12:00 - 01:00 PM	Genomic Medicine	Knowledge Portals: Accelerating Action from Genetic Data	Noel Burt Director, Operations & Development, Knowledge Portals & Diabetes Research, Broad Institute of MIT and Harvard
9-May	12:00 - 01:00 PM	Structural Variation and Genetic Diversity	Using Genome Wide Sequencing to Identify a Gene-Gene Interaction	Christopher I Amos, PhD Associate Director for Population Sciences, Professor of Community and Family Medicine at the Geisel School of Medicine, Norris Cotton Cancer Center, Dartmouth College
9-May	01:30 - 02:30 PM	Structural Variation and Genetic Diversity	Bimodal Gene Expression in Breast Cancer	Jessica C. Mar, PhD Assistant Professor, Department of Systems & Computational Biology, Assistant Professor, Department of Epidemiology & Population Health, Albert Einstein College of Medicine
9-May	01:30 - 02:30 PM	Genomic Medicine	Next-Generation Sequencing to Understand the Function of miRNAs in Human iPSC-Cardiomyocyte Disease Models	Ulrich Broeckel, MD Professor of Pediatrics, Medicine and Physiology, Chief - Section of Genomic Pediatrics, Department of Pediatrics, Medical College of Wisconsin Amy Turner, BS Research Associate I, Project Leader - miRNA Technologies, Section of Genomic Pediatrics, Department of Pediatrics, Medical College of Wisconsin
10-May	06:00 - 07:00 AM	Metagenomics	Differential Abundance Analysis for Microbial Marker-Gene Surveys	Joseph Paulson, PhD Research Fellow, Dana-Farber Cancer Institute
10-May	06:00 - 07:00 AM	Genome Editing	Multiplexed Precision Genome Editing with Trackable Genome-Integrated Barcodes in Yeast	Kevin Roy, PhD Postdoctoral Scholar, Department of Genetics, Stanford University
10-May	07:30 - 08:30 AM	Structural Variation and Genetic Diversity	Keynote Presentation: An Introduction to the All of Us Research Program	Katherine Blizinsky, PhD Policy Director, All of Us Research Program, National Institutes of Health
10-May	09:00 - 10:00 AM	Metagenomics	Application of Long-Read PacBio Sequencing for High-Resolution Metagenomics	Jonas Korlach, PhD Chief Scientific Officer, Pacific Biosciences

10-May	09:00 - 10:00 AM	Genomic Medicine	Multi-Omics Approach for Discovering Anti-Folate Drug Resistance Mechanisms in Triple-Negative Breast Cancer: Working Toward the Goal of Personalized Medicine	Steven S. Gross, PhD Professor of Pharmacology, Director, Advanced Training in Pharmacology, Director, Metabolomics Lab, Weill Cornell Medical College
10-May	10:30 - 11:30 AM	Genomic Editing	Cost Effective, Robust Digital Gene Expression Profiling of Up to 96 Targets in 96 Samples for Cell Line Screening with nCounter® PlexSet™ Reagents	Chris Merritt, PhD Senior Scientist at NanoString Technologies, Inc.
10-May	10:30 - 11:30 AM	Structural Variation and Genetic Diversity	Excavating the Deep Genome: Deciphering Structural Variation in Complex and Repetitive Regions	Ryan E Mills, PhD Assistant Professor, Department of Computational Medicine & Bioinformatics, Assistant Professor, Department of Human Genetics, University of Michigan
10-May	10:30 - 11:30 AM	Metagenomics	Strain Level Microbiome Profiling Using rRNA Gene Amplicons	Mark Driscoll, PhD Chief Scientific Officer, Co-Founder, Shoreline Biome, LLC
10-May	12:00 - 01:00 PM	Genomic Medicine	Precision Medicine and Pharmacogenomics in Community Pharmacy and Primary Care Setting	Amina Abubakar, PharmD, AAHIVP CEO/President, RX Clinic Pharmacy/AVANT Institute of Clinicians
10-May	01:30 - 02:30 PM	Genomic Medicine	Population Genomic Screening: The Alabama Genomic Health Initiative	Bruce R. Korf, MD, PhD Professor and Chair, Department of Genetics, Director, Heflin Center for Genomic Sciences, UAB