

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 |

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| 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 |

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| 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 |