

AUGUST 20-21, 2014  
GENETICS & GENOMICS

Date	Time	Track	Presentation Title	Speaker
20-Aug	06:00 - 07:00 AM	Keynote	Keynote: Delivering on the promise of personalized medicine	Gordon B Mills, MD, PhD Department Chair, Department of Systems Biology, Division of Cancer Medicine, University of Texas MD Anderson Cancer Center
20-Aug	06:00 - 07:00 AM	Precision Medicine	The realization of the promise of personalized molecular medicine requires efficient development and implementation of novel targeted therapeutics	Gordon B Mills, MD, PhD Department Chair, Department of Systems Biology, Division of Cancer Medicine, University of Texas MD Anderson Cancer Center
20-Aug	07:00 - 07:30 AM	Human Genome	Human Genome Analysis	Mark B Gerstein, PhD Albert L. Williams Professor of Biomedical Informatics, Co-Director, Yale Computational biology and Bioinformatics Program, Yale University
20-Aug	07:15 - 07:45 AM	Cell Biology	Establishing cell-free biology for the production of therapeutics, materials, and chemicals	Michael C Jewett, PhD Assistant Professor of Chemical and Biological Engineering, Northwestern University
20-Aug	07:30 - 08:30 AM	Sequencing	Panel Discussion: Increasing productivity and reproducibility by automating DNA library preparation for Ion Torrent Sequencing	Joanna Hamilton, PhD, Lynne Apone, PhD, Zach Smith, MS Joanna Hamilton, PhD, Co-Director, Dartmouth Medical School and the Norris Cotton Cancer Center Lynne Apone, PhD, Application and Product Development Scientist, NEBNext group, New England Bi
20-Aug	08:00 - 08:30 AM	Sequencing	Exploring Complex Structural Genomic Variation using Next-Gen Sequencing	Ryan E. Mills, PhD Assistant Professor, Department of Computational Medicine & Bioinformatics, Assistant Professor, Department of Human Genetics, University of Michigan
20-Aug	08:00 - 08:30 AM	Human Genetics	High-resolution genomic analysis reveals genetic impacts of human papillomavirus in human cancers	David E Symer, MD, PhD Assistant Professor Department of Molecular Virology, Immunology and Medical Genetics, Assistant Professor, Division of Hematology, Department of Internal Medicine, Human Cancer Genetics Prog

20-Aug	08:30 - 09:30 AM	Sequencing	Actionable mutation detection with multiplex pcr-based targeted enrichment approach for next generation sequencing (NGS)	Vikram Devgan, PhD, MBA Senior Director, Spatial Genomics Business Unit, NanoString Technologies
20-Aug	08:45 - 09:15 AM	Synthetic and Systems Biology	Digitizing Life Using Synthetic Genomics	John Glass, PhD Senior Scientist, Synthetic Biology Group, J. Craig Venter Institution
20-Aug	08:45 - 09:15 AM	Genetic Testing	Novel gene chip technologies and NGS sequencing for personalized medicine & diagnostic	Dani Bercovich, PhD Professor, Scientific Director, Head of MSc program in Biotechnology, Tel Hai College, GGA - Galil Genetic Analysis
20-Aug	10:30 - 11:30 AM	Sequencing	One Platform. Many Analyses	Sohela Shah, PhD Field Application Scientist, Ingenuity Systems, a Qiagen company, Neihaus research fellow, Memorial Sloan Kettering Cancer Center
20-Aug	10:45 - 11:15 AM	Cancer Genetics	OncoScan Assay for copy number from FFPE. Publications & cases on actionable CNV detection	Padma Sundar, MBA, MPH Director of OncoScan Product Marketing Strategy, Affymetrix
20-Aug	10:45 - 11:15 AM	Genetic and Genomic Medicine	The Impact of the \$1000 Genome on Medicine	Shawn Baker, PhD CEO, CSO and Co-Founder, AllSeq, Inc.
20-Aug	11:30 - 12:30 PM	Human Genetics	More Comprehensive Views of Human Genetic Variation	Jonas Korlach, PhD Chief Scientific Officer, Pacific Biosciences
20-Aug	11:45 - 12:15 PM	Genetic Testing	Ethical, Legal and Social Issues of Direct-to-Consumer Genetic Testing	Heidi C Howard, PhD Senior Researcher, Uppsala University, Centre for Research Ethics & Bioethics
20-Aug	11:45 - 12:15 PM	Genetic Counseling, FDA, Regulatory, Law	Genetic Counseling Post-SCOTUS Patent Decision: Fast Forward	Ellen T Matloff, MS, CGC Founder and CEO, Gene Counsel

20-Aug	12:30 - 01:30 PM	Bioinformatics and Quantitative Genomics	Integrative Systems Approaches to Network Modeling of Biological Processes	John Quackenbush, PhD Professor of Computational Biology and Bioinformatics, Chair of the Department of Biostatistics, Harvard University, Dana-Farber Cancer Institute
20-Aug	02:15 - 02:45 PM	Gene Expression	Identifying transcriptional regulators of human embryonic development via 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
21-Aug	06:00 - 06:30 AM	Gene Expression	Landscape and variation of RNA secondary structures in the human transcriptome	Yue Wan, PhD GIS fellow, Genome Institute of Singapore, A*STAR, Genome Institute of Singapore
21-Aug	06:45 - 07:15 AM	Bioinformatics and Quantitative Genomics	Development and Applications of CRISPR-Cas9 for Genome Editing	Feng Zhang, PhD Core Faculty Member, The Broad Institute of MIT/Harvard, Investigator, McGovern Institute for Brain Research, W.M. Keck Career Development Professor of Biomedical Engineering Assistant Profes
21-Aug	06:45 - 07:15 AM	Sequencing	Practical Considerations for the Clinical Interpretation of Germline Sequence Variants in the Era of NGS	Heather McLaughlin, PhD, MB(ASCP)CM Clinical Molecular Genetics Fellow, Partners HealthCare Personalized Medicine
21-Aug	07:30 - 08:30 AM	Keynote	Keynote: Clinical Validity and Utility in Whole Exome/Genome Sequencing	Robert Nussbaum, MD Clinical Professor, UCSF School of Medicine; Chief Medical Officer, Invitae Corp
21-Aug	08:45 - 09:15 AM	Clinical Genomics	Beyond Genomics: Preparing for the Avalanche of Post-Genomic Clinical Findings	Jimmy Lin, MD, PhD, MHS Founder & President, Rare Genomics Institute, School Faculty Member, Washington University in St. Louis
21-Aug	08:45 - 09:15 AM	Gene Therapy	From Genetics to Genetic Medicine: Gene Therapy for vision restoration as a case study	Luk H Vandenberghe, PhD Assistant Professor, Harvard Medical School, Assistant Scientist, Schepens Eye Research Institute, Massachusetts Eye and Ear
21-Aug	08:45 - 09:15 AM	Sequencing	Genome and exome sequencing in a clinical laboratory	Matthew Lebo, PhD, FACMG Instructor of Pathology, BWH and Harvard Medical School, Assistant Laboratory Director and Senior IS Domain Specialist Laboratory for Molecular Medicine, Partners HealthCare Center for Perso

21-Aug	09:30 - 10:30 AM	Sequencing	Studying the Transcriptome with Next-Generation Sequencing	Gary Schroth, PhD Vice President and Distinguished Scientist Illumina
21-Aug	09:45 - 10:15 AM	Complex Diseases	Pathway based analyses for genetic susceptibility to cancer and autoimmune disease	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
21-Aug	09:45 - 10:15 AM	Sequencing	Shotgun sequencing enables non-invasive monitoring of infection and rejection in transplantation	Iwijn De Vlaminc, PhD Postdoctoral researcher, HHMI research associate, Departments of Bioengineering and Applied Physics, Stanford University
21-Aug	10:45 - 11:15 AM	Genetic Counseling, FDA, Regulatory, Law	The Role of Genetic Counselors in the Implementation of Personalized Genomic Medicine	Colleen Campbell, PhD Assistant Director, University of Iowa - Iowa Institute for Human Genetics
21-Aug	11:15 - 12:15 PM	Keynote	Keynote: Integration of Genetics and Genomics into Medical Practice: Educational Challenges	Bruce R. Korf, MD, PhD Professor and Chair, Department of Genetics, Director, Heflin Center for Genomic Sciences, UAB
21-Aug	11:30 - 12:15 PM	Genetic Testing	Automation of High Throughput Agarose Gel Electrophoresis with the NIMBUS Select Featuring Ranger Technology	Matthew Nesbitt, MSc President, Coastal Genomics
21-Aug	11:30 - 12:30 PM	Complex Diseases	Understanding the Genetics of Common Disease: Using Big Data approaches to see the emergent whole	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
21-Aug	12:15 - 01:15 PM	Sequencing	A Next-Gen Sequencing Software Workflow for Gene Panel Validation Control	Matthew Keyser, MS Senior Manager, NGS Applications, DNASTAR
21-Aug	12:45 - 01:15 PM	Sequencing	Predictive and not: understanding the mixed messages of our DNA	Cecile Janssens, PhD Research Professor of Epidemiology, Emory University

21-Aug	02:30 - 03:00 PM	Bioinformatics and Quantitative Genomics	Integrating patient specific information in rare disorder analysis	Asif Javed, PhD Research Associate, Genome Institute of Singapore (GIS), A*STAR
21-Aug	03:00 - 04:00 PM	Gene Expression	Unexpected Findings from Analysis of Complex Mammalian Transcriptomes	Piero Carninci, PhD Director, Division of Genomic Technologies, RIKEN Center for Life Science Technologies