

# GENETICS & GENOMICS

MAY 8<sup>th</sup> ~ 9<sup>th</sup> 2019

Date	Time	Track	Presentation Title	Speaker
8-May	06:00 - 07:00 AM	The Epigenome in Health and Disease	Novel DNA Methylation in Mammals	Tao Wu, PhD Assistant Professor, CPRIT Scholar for Cancer Research, Department of Molecular and Human Genetics, Dan L Duncan Comprehensive Cancer Center, Baylor College of Medicine
8-May	06:00 - 09:00 AM	Progression in Genome Editing Including Single Base Editing and Application	Upgrading the CRISPR Toolbox - New Strategies Sharpen the CRISPR-Cas9 Scissors Utilizing Visualization and Chromatic Accessibility	Michelle Ding, M.S. R&D Scientist, MilliporeSigma Yanfang Jiang, PhD Senior R&D Scientist, MilliporeSigma
8-May	07:30 - 08:30 AM	Interpreting Genome Sequence Information from Telomere to Telomere	Keynote Presentation: Interpreting the Zero \$ Genome via Base Editing, Organoids & in Situ Omics	George M. Church, PhD Professor of Genetics, Director of the Center for Computational Genetics, Harvard Medical School
8-May	09:00 - 10:00 AM	Progress in Genome Editing Including Single Base Editing and Application	Circular Synthesized CRISPR/Cas gRNAs for Functional Interrogations in Single and Multiplex Formats	Manuel Kaulich, PhD CSO, Vivlion
8-May	09:00 - 10:00 AM	Interpreting Genome Sequence Information from Telomere to Telomere	Development of an Arrayed Whole Human Genome KO Library for Functional Genomics Screening, Using an Optimized Multi-sgRNA Approach	Kevin Holden, PhD Head of Science, Synthego
8-May	10:30 - 11:30 AM	Progression in Genome Editing Including Single Base Editing and Application	Discovering Cellular Mechanisms and Biomarkers in Anti-PD1 Non-Responders Using Ingenuity Pathway Analysis Software and OmicSoft OncoLand Datasets from QIAGEN	Devendra Mistry, PhD Senior Field Application Scientist, QIAGEN Advanced Genomics
8-May	10:30 - 11:30 AM	Interpreting Genome Sequence Information from Telomere to Telomere	Using Networks to Understand Cancer Risk	John Quackenbush, PhD Professor of Computational Biology and Bioinformatics, Chair of the Department of Biostatistics, Harvard University, Dana-Farber Cancer Institute

8-May	12:00 - 01:00 PM	Interpreting Genome Sequence Information from Telomere to Telomere	Next-Generation Transcriptome and miRNome Sequencing: Intelligent Approaches to Insightful Outcomes	Jonathan Shaffer, PhD, MBA Director, R&D, NGS Assay Technologies, QIAGEN
8-May	01:30 - 02:30 PM	Interpreting Genome Sequence Information from Telomere to Telomere	Highly Accurate Long Sequence Reads for Comprehensive Genomic Analysis	Jonas Korlach, PhD Chief Scientific Officer, Pacific Biosciences
9-May	06:00 - 07:00 AM	Interpreting Genome Sequence Information from Telomere to Telomere	AI-Driven Literature Curation for Determining Genomic Variant Pathogenicity	Mark Kiel, MD, PhD Co-Founder and Chief Science Officer, Genomenon
9-May	07:30 - 08:30 AM	The Epigenome in Health and Disease	Keynote Presentation: Big Data and Health	Michael Snyder, PhD Professor and Chair, Genetics, Director, Stanford Center for Genomics and Personalized Medicine, Stanford University School of Medicine
9-May	09:00 - 10:00 AM	Interpreting Genome Sequence Information from Telomere to Telomere	Completing the Human Genome: The Progress and Challenge of Satellite DNA Assembly	Karen Miga, PhD Assistant Research Scientist; UCSC Genomics Institute, University of California, Santa Cruz
9-May	09:00 - 10:00 AM	Polygenic Risk Scores: PheWas and GWAS and Utility of Biobank Information	Polygenic Risk Scores: PheWas and GWAS and Utility of Biobank Information	Guillaume Paré, MD, MSc, FRCPC Associate Professor, Director, Genetic and Molecular Epidemiology Laboratory, McMaster Genome Institute
9-May	10:30 - 11:30 AM	Interpreting Genome Sequence Information from Telomere to Telomere	Background and Troubleshooting for RT-PCR	Gillian Browne, PhD Global Market Development Scientist, Gene Editing and Novel Modalities, MilliporeSigma
9-May	10:30 - 11:30 AM	Chromosomal Instability, Somatic Cell Recombination and Genomic Stability	Somatic Gene Recombination in the Brain	Jerold Chun, MD, PhD Professor and Senior Vice President, Sanford Burnham Prebys Medical Discovery Institute
9-May	12:00 - 01:00 PM	Interpreting Genome Sequence Information from Telomere to Telomere	A Metagenomic Assay to Interrogate the Role of Virome and Microbiome in Cancer	Erle Robertson, PhD Harry P. Schenck Endowed Chair Professor, Vice-Chair, Department of Otorhinolaryngology, Perelman School of Medicine, University of Pennsylvania
9-May	01:30 - 02:30 PM	Interpreting Genome Sequence Information from Telomere to Telomere	The NIH Rare Disease Undiagnosed Diseases Network; Lessons Learnt and Challenges Faced in the First Four Years	Liz Worthey, PhD Faculty Investigator, HudsonAlpha Institute for Biotechnology