

AUGUST 21-22, 2013
GENETICS & GENOMICS

Date	Time	Track	Presentation Title	Speaker
21-Aug	06:00 - 07:00 AM		M-protein Evaluation in an Age of Automation: Capillary Electrophoresis, Free Light Chains & Heavy- Light Measurements	David F Keren, MD Professor, Department of Pathology, Associate Director, Clinical Pathology Laboratories, University of Michigan Health System
21-Aug	06:00 - 07:00 AM		What to use for targeted re-sequencing - microarrays or NGS?	Agnieszka Lichanska, PhD Laboratory Director, TessArae, LLC
21-Aug	06:00 - 07:00 AM		You Can and Must Understand Synthetic Biology	Andrew Hessel, MSc Distinguished Research Scientist, Autodesk Inc., Faculty, Singularity University
21-Aug	07:00 - 08:00 AM		Improving the Accuracy of Genome Sequencing and Interpretation	George M. Church, PhD Professor of Genetics, Director of the Center for Computational Genetics, Harvard Medical School
21-Aug	08:00 - 09:00 AM		Clinical Applications in Pharmacogenetics	Linnea Baudhuin, PhD, DABMG Co-director, Pharmacogenomics and Genetics Laboratory, Co-director, Cardiovascular Laboratory Medicine, Department of Laboratory Medicine and Pathology, Mayo Clinic
21-Aug	08:00 - 09:00 AM		Implementation of genome sequencing in a clinical diagnostic 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	08:00 - 09:00 AM		Post Genome-Wide Association Studies	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	09:00 - 10:00 AM		Adventures in Personal Genomics and Whole Omics Profiling	Michael Snyder, PhD Professor and Chair, Genetics, Director, Stanford Center for Genomics and Personalized Medicine, Stanford University School of Medicine
21-Aug	10:00 - 11:00 AM		Azole resistance in <i>Aspergillus fumigatus</i> - clinical isolate screening, culture selection, and genetics	William C Nierman, PhD Professor, Director, Infectious Diseases Program, J. Craig Venter Institute (JCVI)
21-Aug	10:00 - 11:00 AM		Genomic Approaches to Discover Biomarkers of Drug Response in Cancer	Michael F Berger, PhD Assistant Professor in the Department of Pathology, Research Scientist, Memorial Sloan-Kettering Cancer Center
21-Aug	10:00 - 11:00 AM		Integration of 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	11:00 - 12:00 PM		Panel Discussion: Meeting the Demand of Increased NGS Capacity with Automated TruSeq Stranded mRNA Library Preparation	Alisa Jackson, Zach Smith, Mary Blair, Dave Delano Alisa Jackson, Moderator, Beckman Coulter, Inc. Zach Smith, MS, Project Scientist, The Center for Genomics and Bioinformatics, Indiana University Mary Blair, Senior Application Scientist,
21-Aug	12:00 - 01:00 PM		Genetics of Coronary Artery Disease	Robert Roberts, MD, FRCPC, MACC, LLD (Hon.) President, Chief Executive Officer and Chief Scientific Officer, Professor of Medicine, Director, Ruddy Canadian Cardiovascular Genetics Centre, University of Ottawa Heart Institute
21-Aug	12:00 - 01:00 PM		Genome Hacking	Yaniv Erlich, PhD Principal Investigator, Andria and Paul Heafy Family Fellow, MIT Whitehead Institute for Biomedical Research
21-Aug	12:00 - 01:00 PM		Noninvasive Cancer Genomics	Charles Cantor, PhD Chief Scientific Officer, Sequenom
21-Aug	01:00 - 02:00 PM		Bioinformatics and Quantitative Genomics in Cervical Cancer Screening	Bruce K Patterson, MD CEO and Founder, IncelIDx Inc
21-Aug	01:00 - 02:00 PM		Codon optimization: new safety concerns for gene therapy and genetic vaccines	Vincent P Mauro, PhD Associate Professor of Neurobiology, Scripps Institute

21-Aug	01:00 - 02:00 PM		In sickness and in health: variables effecting genome sequencing ethical issues	Kimberly Strong, PhD Assistant Professor, Primary Faculty for the Program in Genomics and Ethics, Medical College of Wisconsin
21-Aug	02:00 - 03:00 PM		Claritas Genomics: The Future of Pediatric Diagnostics is Now	Patrice Milos, PhD Chief Executive Officer, Claritas Genomics
21-Aug	02:00 - 03:00 PM		Comprehensive Chromosome Screening in the Human Embryo	Nathan R Treff, PhD Director of Molecular Biology Research, Reproductive Medicine Associates of New Jersey, Associate Professor, Department of Obstetrics, Gynecology, and Reproductive Sciences, UMDNJ-Robert Wood Johnson
21-Aug	02:00 - 03:00 PM		The role of protective genes in the exceptional longevity of humans	Nir Barzilai, MD Director, Institute for Aging Research, Ingeborg and Ira Leon Rennert Chair in Aging Research, Professor, Department of Medicine (Endocrinology), Professor, Department of Genetics, Albert Einstein College of Medicine
21-Aug	03:00 - 04:00 PM		Discovery, Development, and Clinical Validation of Gene Expression Scores for Transplant Rejection and Coronary Artery Disease	Steven Rosenberg, PhD Chief Scientific Officer, CardioDx, Inc.
21-Aug	03:00 - 04:00 PM		Evolution of Alu elements in long non-coding RNA and mRNA	Daniel Caffrey, PhD Assistant Professor at the University of Massachusetts Medical School, Program Chair for the Bioinformatics Program, Instructor in the Rabb School of Continuing Studies, Division of Graduate Studies
21-Aug	03:00 - 04:00 PM		Investigating tissue specificity of cancer-causing germline mutations	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	04:00 - 05:00 PM		Development of Targeted Next Generation Sequencing for Pharmacogenomics	Edward Ki Yun Leung, PhD Clinical Chemistry Postdoctoral Fellow, University of Chicago
21-Aug	04:00 - 05:00 PM		Lighting up the dark matter of the genome: Unravelling the roles of noncoding DNA in disease and development	Marcel Dinger, PhD Head, Kinghorn Centre for Clinical Genomics, Garvan Institute; CEO, Genome.One

21-Aug	04:00 - 05:00 PM		The hidden layer of RNA regulation in human development	John Mattick, PhD,AO, FAA, FRCPA Executive Director, Garvan Institute of Medical Research, Conjoint Professor in the St Vincent's Hospital Clinical School and the Faculty of Medicine, at the University of New South Wales
21-Aug	05:00 - 06:00 PM		Fungal Genomics for Energy and Environment	Igor Grigoriev, PhD Head, Fungal Genomics Program, US Department of Energy Joint Genome Institute
21-Aug	05:00 - 06:00 PM		Global penetration of genomic-like techniques into fast clinical diagnostics of infective diseases in emergency: applicability and technological bottlenecks?	Ivan Brukner, PhD Head of Molecular Microbiology Unit- Molecular Biology, Jewish General Hospital - McGill University
22-Aug	07:00 - 08:00 AM		Metabolic reprogramming: links to the epigenome	Kathryn E Wellen, PhD Assistant Professor, Assistant Investigator, Abramson Family Cancer Research Institute, University of Pennsylvania Medicine
22-Aug	07:00 - 08:00 AM		Soluble 14-3-3? - A Personalised Rheumatoid Arthritis Patient Management Strategy	Anthony Marotta, PhD Chief Scientific Officer, AugureX Life Sciences Corp
22-Aug	07:00 - 08:00 AM		Warfarin Sensitivity Testing	Thomas P Moyer, PhD Professor of Laboratory Medicine, Mayo Clinic
22-Aug	08:00 - 09:00 AM		Aliens, Computers & Engineering Biology - An Introduction to Synthetic Biology	Drew Endy, PhD Assistant Professor of Bioengineering at Stanford, and President of The BioBricks Foundation
22-Aug	09:00 - 10:00 AM		Management and Analysis of Pre-implantation Genetic Diagnosis Data	Deanne Taylor, MS, PhD Director Bioinformatics, Children's Hospital of Philadelphia, University of Pennsylvania
22-Aug	09:00 - 10:00 AM		Next-Gen Sequencing: Driving the Transition from Genetics to Genomics	Shawn Baker, PhD CEO, CSO and Co-Founder, AllSeq, Inc.
22-Aug	09:00 - 10:00 AM		Return of Genome Sequencing Results to Physicians and Patients	Cinnamon S Bloss, PhD Director of Social Sciences & Bioethics, Assistant Professor, Scripps Translational Science Institute, Scripps Health & The Scripps Research Institute

22-Aug	10:00 - 11:00 AM		Clinical Interpretation of Sequence Variants	Elaine Lyon, PhD Associate Professor (Clinical) of Pathology, Division Medical Director, Genetics, Co-Program Director, Clinical Genetics Fellowship Program, Program Director, Molecular Genetics Fellowship Pr
22-Aug	10:00 - 11:00 AM		FarGen - a holistic genomic health approach	Bogi Eliassen, MSc Program director for FarGen, Faroe Islands Ministry of Health
22-Aug	10:00 - 11:00 AM		Using Prostate Cancer Exome Data to Identify Candidate Genes	Matthew Keyser, MS Senior Manager, NGS Applications, DNASTAR
22-Aug	11:00 - 12:00 PM		Design of protein structures, functions and assemblies	David Baker, PhD Investigator, Howard Hughes Medical Institute, Professor of Biochemistry, Adjunct Professor of Genome Sciences, Physics, Computer Science, Chemical Engineering, and Bioengineering, University
22-Aug	12:00 - 01:00 PM		Exome Sequencing as a Diagnostic Tool	Pinar Bayrak-Toydemir, MD, PhD Associate Professor, Department of Pathology, University of Utah, Medical Director, Molecular Genetics and Genomics ARUP Laboratories
22-Aug	12:00 - 01:00 PM		Use of Whole Genome Sequencing in Clinical Practice	Howard J Jacob, PhD Founding Director of the Personalized Medicine Program and Human and Molecular Genetics Center, Warren P. Knowles Chair of Genetics, Professor, Department of Physiology & Pediatrics, Medi
22-Aug	01:00 - 02:00 PM		Dominant regulation of gene expression by microRNAs	Noam Shomron, PhD Principle Investigator, Genome Laboratory, Tel Aviv University
22-Aug	01:00 - 02:00 PM		Embracing the Complexity of Cancer: Seeing the Forest and the Trees	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
22-Aug	02:00 - 03:00 PM		The Road to Genomic Medicine is Paved with Data and Information	John Quackenbush, PhD Professor of Computational Biology and Bioinformatics, Chair of the Department of Biostatistics, Harvard University, Dana-Farber Cancer Institute

22-Aug	02:00 - 03:00 PM		Translation and Clinical Application of Innovative Genomic Analysis: Challenges Remain	Paul Billings, MD, PhD Chief Medical Officer, Life Technologies
22-Aug	03:00 - 04:00 PM		Evaluation challenges and regulatory considerations for next-generation sequencing and other high throughput genomic technology based clinical applications	Živana Težak, PhD Associate Director for Science and Technology, Office of In Vitro Diagnostics and Radiological Health (OIR), CDRH, U.S. Food and Drug Administration
22-Aug	03:00 - 04:00 PM		Next-generation Cancer Care in the Age of Genomics, Precision Medicine, High Throughput Biology	C Jimmy Lin, MD, PhD, MHS Founder, President, CEO, TED Fellow, Rare Genomics Institute Washington University in St. Louis
22-Aug	04:00 - 05:00 PM		Complexity of Mammalian Transcription	Piero Carninci, PhD Director, Division of Genomic Technologies, RIKEN Center for Life Science Technologies
22-Aug	05:00 - 06:00 PM		Clinical Utility Potential of Epigenetic Aberrations in Human Solid Tumors	Dave S Hoon, PhD Chief of Scientific Intelligence, Director of Molecular Oncology, John Wayne Cancer Institute
22-Aug	05:00 - 06:00 PM		Genomic Profiles of Asian Endemic Cancers	Prof. Patrick Tan, MD, PhD Professor, Cancer and Stem Cell Biology Programme, Duke-NUS Medical School, Singapore