

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 |

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| 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 |

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| 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 |
| 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 |
| 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 |

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| 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 |

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| 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 |

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| 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 |