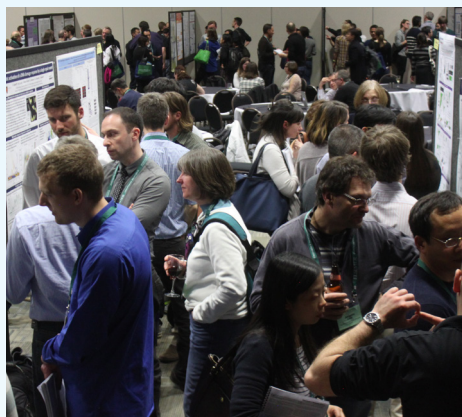




Join Keystone Symposia
for the 2016 conference on:

The Cancer Genome

February 7–11, 2016

Fairmont Banff Springs | Banff, Alberta | Canada

Scientific Organizers:

Elaine R. Mardis, Sohrab Shah and Ben J. Raphael

*Joint with the conference on **Genomics and Personalized Medicine***

We are now finally poised to see translation of cancer genomics into the clinical setting, effectively transforming patient care. Specific goals of this meeting are to: 1) Provide an overview of computational tools, any gaps in variant detection capabilities and their challenges for clinical implementation; 2) Discuss specific approaches to identify gene-therapy combinations, specifically addressing the difficulty of assessing the impact of DNA mutations on protein function; 3) Identify the significant efforts ongoing in blood-based ("liquid") biopsy of patients; 4) Present current efforts to utilize genomics of individual tumors to inform immunotherapy development; 5) Discuss efforts at data integration, across "omic" platforms, and also the integration of genomic data with more conventional pathology-based evidence/data. The anticipated outcomes will be the exchange of ideas among international participants regarding how genomics will impact cancer care and clinical practice and what gaps exist in existing approaches, as well as development of new collaborations and new enthusiasm for helping to build on the potential of genome-guided approaches to cancer medicine.

Session Topics:

- Cancer Genomics in the Clinic (Joint)
- Cancer Genomics: Discovery to Translation (Joint)
- Panel: Challenges of Precision Oncology in the Clinical Setting
- Genome-Guided Cancer Therapy
- Genomics Informs Personalized Immunotherapy
- Personal Medicine and Health (Joint)
- Emerging Themes in Cancer Genomics
- Computational and Mathematical Models of Cancer Progression
- The Other -Omics (Joint)
- Single Cell and Liquid Biopsy Genomics of Cancer



Submitting an abstract is a great way of participating in the conference through poster presentation and possible selection for a short talk.

Scholarship & Discounted Abstract Deadline: Oct 7, 2015

Abstract Deadline: Nov 9, 2015

Discounted Registration Deadline: Dec 7, 2015

For additional details, visit www.keystonesymposia.org/16Q1.

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KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

The Cancer Genome (Q1)

Scientific Organizers: Elaine R. Mardis, Sohrab Shah and Ben J. Raphael

Sponsored by Constellation Pharmaceuticals and Incyte Corporation

Genomics and Personalized Medicine (Q2)

Scientific Organizers: Michael Snyder, Leroy E. Hood and Heidi L. Rehm

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SUNDAY, FEBRUARY 7

Arrival and Registration

MONDAY, FEBRUARY 8

Welcome and Keynote Session: Cancer Genomics in the Clinic (Joint)

Levi A. Garraway, Dana-Farber Cancer Institute, USA
Sequencing and Clinical Interpretation to Guide Precision Cancer Medicine

Eric Schadt, Mount Sinai School of Medicine, USA
Advances in Human Genome Analyses

Cancer Genomics: Discovery to Translation (Joint)

Elaine R. Mardis, Washington University, USA
Clinical Translation of Cancer Genomics

David Solit, Memorial Sloan Kettering Cancer Center, USA
Defining the actionable genome

Short Talk(s) Chosen from Abstracts

Panel: Challenges of Precision Oncology in the Clinical Setting

Levi A. Garraway, Dana-Farber Cancer Institute, USA
Lillian Siu, Princess Margaret Hospital, Canada

Genome-Guided Cancer Therapy (Q1)

Lillian Siu, Princess Margaret Hospital, Canada
Experience from Princess Margaret IMPACT/COMPACT Trial

Nuria Lopez-Bigas, University Pompeu Fabra - UPF, Spain
Cancer Drivers and Their Therapeutic Opportunities

Speaker to be Announced

Short Talk Chosen from Abstracts

Disease Gene Discovery (Q2)

Karen B. Avraham, Tel Aviv University, Israel
Genomics of Hereditary Deafness

Joseph G. Gleeson, HHMI/The Rockefeller University, USA
Talk Title to be Announced

Richard A. Gibbs, Baylor College of Medicine, USA
Discovering the Basis of Mendelian Disease

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, FEBRUARY 9

Genomics Informs Personalized Immunotherapy (Q1)

Robert D. Schreiber, Washington University School of Medicine, USA
Genomic Approaches to Understand Cancer Immunosuppression

Renier Brentjens, Memorial Sloan-Kettering Cancer Center, USA
Moving CAR T Cell Therapy Forward: CARs and Armored CARs

James P. Allison, University of Texas MD Anderson Cancer Center, USA

Blockade Therapies: Current Experience and Future Directions

Alexandra Snyder, Memorial Sloan Kettering Cancer Center, USA
Beyond Mutational Load in Checkpoint Blockade Therapies and Advanced Solid Tumors

Short Talk(s) Chosen from Abstracts

Technology and Sensors (Q2)

Speaker to be Announced

Ali Torkamani, The Scripps Translational Science Institute & Scripps Research Institute, USA
Genome-Guided Therapy Repurposing and Response Monitoring in Orphan Disease

Jim R. Heath, California Institute of Technology, USA
Affinity Reagents and Sensors

Steve Quake[†], Stanford University, USA
Cool Technologies

Short Talk(s) Chosen from Abstracts

Workshop: The Integrative Human Microbiome Project (iHMP): Dynamic Analysis of Microbiome-Host Omics Profiles during Periods of Human Health and Disease (Q2)

Curtis Huttenhower, Harvard School of Public Health, USA

Gregory A. Buck, Virginia Commonwealth University, USA

Michael Snyder, Stanford University School of Medicine, USA

Personal Medicine and Health (Joint)

Leroy E. Hood, Institute for Systems Biology, USA
Talk Title to be Announced

Heidi Rehm, Harvard Medical School, USA
Supporting Genomic Interpretation

Larry Norton, Memorial Sloan Kettering Cancer Center, USA
BCRF Funded Sequencing of Metastatic Breast Cancers

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, FEBRUARY 10

Emerging Themes in Cancer Genomics (Q1)

Arul M. Chinnaiyan, University of Michigan, USA

Molecular Tumor Board at UMMichigan: Progress and Impact

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Jeff Tyner, Oregon Health & Science University, USA
Combining Genomic and Functional Screening in Targeted Therapy Decision-Making

Michael F. Berger, Memorial Sloan Kettering Cancer Center, USA
Matching Patients to Treatments Through Enterprise-Wide Tumor Sequencing

Marco A. Marra, British Columbia Cancer Agency, Canada
The BC Cancer Agency Personalized OncoGenomics (POG) Project

David Hyman, Memorial Sloan Kettering Cancer Center, USA
New Precision Medicine Clinical Trial Paradigms, Leveraging Cancer Genomics in the Clinic

Short Talk(s) Chosen from Abstracts

Personalized and Preventative Medicine (Q2)

Kathryn North†, University of Sydney, Australia
Talk Title to be Announced

Michael Snyder, Stanford University School of Medicine, USA
Personal Omics Profiling

David R. Walt, Tufts University, USA
Single Molecules and Single Cells: Probing Chemistry and Biology at their Fundamental Limit

Jim Kaput, Nestlé Institute of Health Sciences, Switzerland
Nutrition

Short Talk(s) Chosen from Abstracts

Computational and Mathematical Models of Cancer Progression (Q1)

Dana Pe'er, Columbia University, USA
Computational Prediction of Driver Genes and Modules

Christina Curtis, Stanford University, USA
Quantifying the Dynamics of Tumor Growth and Progression

Doron Lipson, Foundation Medicine, Inc., USA
Interpreting Cancer Genomes for the Clinician

Short Talk Chosen from Abstracts

Harnessing Big Data for Health (Q2)

Atul J. Butte, University of California, San Francisco, USA
Big Data and Drug Treatments

Michael R. Hayden†, University of British Columbia and Teva Pharmaceutical Industries Ltd., Canada
Talk Title to be Determined

Dennis Wall, Stanford University, USA
Diagnosing Autism Using Big Data

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, FEBRUARY 11

The Other -Omes (Joint)

Peter A. Jones, Van Andel Research Institute, USA
The Cancer Epigenome

Karin D. Rodland, Pacific Northwest National Laboratory, USA
The Proteogenomic Landscape of Ovarian Cancer: Integrating Genomics and Proteomics in the Context of Clinical Outcome

Andrea Califano, Columbia University, USA
Cancer Networks

Joseph R. Ecker, HHMI/The Salk Institute for Biological Studies, USA
The Personal Epigenome

Short Talk(s) Chosen from Abstracts

Single Cell and Liquid Biopsy Genomics of Cancer (Q1)

Nicholas Navin, University of Texas MD Anderson Cancer Center, USA
Single-Cell Sequencing of Breast Cancer Genomes

Speaker to be Announced

Caroline Dive, University of Manchester, UK
Circulating Tumor Cells and Circulating Free DNA Studies of Lung Adenocarcinoma

Translational and Clinical Genomics (Q2)

Howard J. Jacob, Medical College of Wisconsin, USA
Advancing Clinical Care with Genomic Tools

Diana W. Bianchi, Tufts Medical Center, USA
Noninvasive prenatal DNA sequencing transforms care and detects occult malignancies

Philip Awadalla, Ontario Institute for Cancer Research, Canada
Exploiting Large Population Cohorts to Capture Genomic x Environmental Determinants of Chronic Diseases

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (Q1)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (Q2)

FRIDAY, FEBRUARY 12

Departure