

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Precision Medicine in Cancer (E1)

May 6-10, 2018 • Clarion Hotel Sign • Stockholm, Sweden

Scientific Organizers: Richard Rosenquist, Elaine Mardis and Charles M. Perou

Organized in collaboration with Knut and Alice Wallenberg Foundation
and Science for Life Laboratory

Sponsored by ImmunoGen, Inc., and Thermo Fisher Scientific Inc.

Abstract & Scholarship Deadline: January 9, 2018 / Abstract Deadline: February 6, 2018 / Discounted Registration Deadline: March 6, 2018

SUNDAY, MAY 6

Arrival and Registration

MONDAY, MAY 7

Welcome and Keynote Address

Charles M. Perou, University of North Carolina at Chapel Hill, USA
Charting the Cancer Genome Landscape: Lessons, Opportunities and Challenges

Clinical Genomics in Solid Tumors

Arul M. Chinnaiyan, University of Michigan, USA
Clinical Genomics for Precision Medicine in Prostate Cancer

Serena Nik-Zainal, Wellcome Trust Sanger Institute, UK
Landscape of Somatic Mutations in Breast Cancer: Clinical Implications

Victor E. Velculescu, Johns Hopkins University, USA
Defining Progression in Colorectal Cancer: Current Status and Beyond

Short Talk(s) Chosen from Abstracts

Poster Session 1

Workshop 1: Deciphering Cancer by Next-Generation Sequencing

Short Talks Chosen from Abstracts

Precision Diagnostics in Solid Tumors

Michael F. Berger, Memorial Sloan Kettering Cancer Center, USA
Integrated Genomic Assays for Precision Cancer Diagnostics

Lillian Siu, Princess Margaret Hospital, Canada
A Decade of Precision Medicine: Reality or Myth?

Matthew J. Ellis, Baylor College of Medicine, USA
Integrated Proteogenomics for Biomarker Discovery in Breast Cancer

Levi A. Garraway, Eli Lilly and Company, USA
Dissecting the Microenvironment in Melanoma by Single Cell

TUESDAY, MAY 8

Keynote Address

Elaine Mardis, Nationwide Children's Hospital, Ohio State University, USA
Future Directions of Precision Cancer Genomics

Clinical Genomics in Hematological Malignancies

Charles G. Mullighan, St. Jude Children's Research Hospital, USA
Advances in Genetics and Therapy in Pediatric Acute Lymphoblastic Leukemia

Richard Rosenquist, Karolinska Institutet, Sweden
The Molecular Landscape of Chronic Lymphocytic Leukemia: Prognostic and Therapeutic Implications

Riccardo Dalla-Favera, Columbia University, USA
Precision Medicine in B Cell Lymphoma

Elli Papaemmanuil, Memorial Sloan Kettering Cancer Center, USA
Genomic Drivers and Prognosis in Acute Myeloid Leukemia

Short Talk(s) Chosen from Abstracts

Workshop 2: Circulating Cell-Free Nucleic Acid Sequencing and Detection of Minimal Residual Disease

Short Talks Chosen from Abstracts

Precision Diagnostics in Hematological Malignancies

Maria Luisa Sulis, NewYork-Presbyterian Hospital/Columbia University Medical Center, USA

Clinical Implementation of Sequencing in Pediatric Hematology-Oncology Practice

Eva Hellström-Lindberg, Karolinska Institute, Sweden
High-Throughput Mutational Screening Improves Risk Stratification in Myelodysplastic Syndromes

Ross L. Levine, Memorial Sloan Kettering Cancer Center, USA
Integrated Genomic/Transcriptomic Profiling of Hematologic Malignancies

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, MAY 9

Disease Monitoring in Cancer Patients

Pasi A. Jänne, Harvard Medical School, USA
Cell-Free DNA as Precision Markers for Cancer Detection

Alberto Bardelli, University of Torino, Italy
Cancer Evolution as a Therapeutic Target

Catherine Ju-Ying Wu, Dana-Farber Cancer Institute, USA
Intraclonal Dynamics in Chronic Lymphocytic Leukemia: Clinical Implications

Short Talk(s) Chosen from Abstracts

Novel Approaches in Cancer Genomics

Charles Swanton, Francis Crick Institute, UK
Targeted Therapies and Resistance in Lung Cancer

David T. Miyamoto, Massachusetts General Hospital, USA
Molecular Characterization of Circulating Tumor Cells for Cancer Precision Medicine

Olli Kallioniemi, Science for Life Laboratory, Sweden
Precision Systems Medicine to Tailor Cancer Treatments

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, MAY 10

Novel Targets, Novel Therapies I

Gerald P. Linette, University of Pennsylvania, USA
Melanoma Neoantigen Discovery

Winette Van Der Graaf, Institute of Cancer Research, UK
Targeting the Kinome in Cancer

Speaker to be Announced

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Thomas Helleday, Karolinska Institutet, Sweden
Targeting the DNA Damage Response in Cancer

Short Talk(s) Chosen from Abstracts

Workshop 3: Identifying Novel Targets and Therapies

Short Talks Chosen from Abstracts

Novel Targets, Novel Therapies II

Renier Brentjens, Memorial Sloan Kettering Cancer Center, USA

Talk Title to be Announced

Eric Tran, Providence Cancer Center, USA

Immunogenicity of Somatic Mutations in Cancer

Laurence Zitvogel, Institut Gustave Roussy, France

Resistance to Immune-Checkpoint Blockade in Cancer

Meeting Wrap-Up

Jonas Bergh, Karolinska Institutet, Sweden

A Clinical Oncologist Perspective

FRIDAY, MAY 11

Departure