

Conference Program

Monday, January 4, 2016

6:00 p.m.-7:30p.m. Opening Keynote Session
Legends 1-4

6:00 p.m. Welcome Remarks

6:15 p.m. Keynote Address

Immune reactivity and regulation in lung cancer

Sergio A. Quezada, UCL Cancer Insitute, London, United Kingdom

7:00 p.m. Keynote Discussion

7:30 p.m.-9:00 p.m. Welcome Reception
Woodstock

Tuesday, January 5, 2016

7:00 a.m.-8:00 a.m. Continental Breakfast
Abbey Road and Penny Lane

8:00 a.m.-10:00 a.m. Plenary Session 1: Small Cell Lung Cancer
Legends 1-4
Session Chairperson: Caroline Dive, CRUK Manchester Institute, Manchester, United Kingdom

8:00 a.m. Circulating tumor cell eXplants (CDX) to advance SCLC research and drug development
Caroline Dive

8:25 a.m. Immunotherapy in small cell lung cancer
Anna Farago, Massachusetts General Hospital, Boston, MA

8:50 a.m. Safety, activity, and durability assessment of rovalpituzumab tesirine, a delta-like protein 3 (DLL3)-targeted antibody drug conjugate, in recurrent or refractory small cell lung cancer
Charles M. Rudin, Memorial Sloan Kettering Cancer Center, New York, NY

9:15 a.m. Comprehensive genomic characterization of small cell lung cancer
Julie George, University of Cologne, Cologne, Germany

9:40 a.m. Session Discussion

10:00 a.m.-10:30 a.m. Break
Abbey Road

- 10:30 a.m-12:30 p.m. Plenary Session 2: Drug Resistance**
 Legends 1-4
Session Chairperson: Alice T. Shaw, Massachusetts General Hospital Cancer Center, Boston, MA
- 10:30 a.m. Intratumoral heterogeneity and EGFR-TKIs resistance**
 Caicun Zhou, Tongji University, Shanghai, China
- 10:55 a.m. Evolution of resistance in ALK and ROS1-positive lung cancer**
 Alice T. Shaw
- 11:20 a.m. Primary and adaptive resistance to checkpoint blockade in lung cancer**
 Peter S. Hammerman, Dana-Farber Cancer Institute, Boston, MA
- 11:45 a.m. Enhancing response via rational upfront polytherapy**
 Trever G. Bivona, University of California, San Francisco, CA
- 12:10 p.m. Session Discussion**
- 12:30 p.m-2:30 p.m. Poster Session A with Lunch**
 Encore & Abbey Road and Penny Lane
- 2:30 p.m-4:30 p.m. Concurrent Sessions 1-2**
- Concurrent Session 1: Animal Models**
 Legends 1-4
Session Chairperson: Trudy G. Oliver, Huntsman Cancer Institute, Salt Lake City, UT
- 2:30 p.m. Sox2 cooperates with Lkb1 loss to promote squamous cell lung cancer**
 Trudy G. Oliver
- 2:55 p.m. Understanding the mechanisms of sensitivity and resistance to immunotherapeutics**
 Kwok-Kin Wong, Dana-Farber Cancer Center, Boston, MA
- 3:20 p.m. Modeling lung cancer with CRISPR/Cas9**
 Joana Vidigal, Memorial Sloan Kettering Cancer Center, New York
- 3:45 p.m. Interrogating small cell lung cancer driver genes using mouse models**
 David MacPherson, Fred Hutchinson Cancer Research Center, Seattle, WA
- 4:10 p.m. Session Discussion**

Concurrent Session 2: Hot Topics in Radiation Oncology

Edge

Session Chairperson: Quynh-Thu Le, Stanford University, Stanford, CA

- 2:30 p.m. From bench to bedside to beam: Hippocampal sparing during cranial irradiation**
Vinai Gondi, Northwestern Medicine Cancer Center, Warrenville, Warrenville, IL
- 2:55 p.m. Immunomodulatory effects of radiotherapy: Magical effects of the healing beam?**
Arta Monjazeb, UC Davis Health System, Sacramento, CA
- 3:20 p.m. Deep sequencing of circulating tumor DNA for personalized lung cancer detection and radiotherapy response monitoring**
Maximilian Diehn, Stanford University, Stanford, CA
- 3:45 p.m. Potential of FLASH irradiation to minimize the incidence of radio-induced damage and fibrosis to normal lung in a mouse model**
Charles Fouillade, Curie Institute, Orsay, France
- 4:10 p.m. Session Discussion**

4:45 p.m.-6:45 p.m. Concurrent Sessions 3-4

Concurrent Session 3: Stem Cells

Legends 1-4

Session Chairperson: Julien Sage, Stanford University School of Medicine, Stanford, CA

- 4:45 p.m. Using stem cell biology to design precision medicine for non-small cell lung cancer**
Christine Fillmore, Children's Hospital Boston, Boston, MA
- 5:10 p.m. Physiologic and pathologic regulation of lung alveolar stem cells**
Tushar Desai, Stanford University, Stanford, CA
- 5:35 p.m. Identification and targeting of long-term tumor-propagating cells in small cell lung cancer**
Julien Sage
- 6:00 p.m. Leveraging antibody-drug conjugates to eradicate tumor-initiating cells in small cell lung cancer**
Scott J. Dylla, StemcentRx, Inc. South San Francisco, CA
- 6:25 p.m. Session Discussion**

Concurrent Session 4: Diagnostics and Biomarkers

Edge

Session Chairperson: Kurt A. Schalper, Yale University, New Haven, CT

- 4:45 p.m. Utility of liquid biopsies in NSCLC**
Philip C. Mack, UC Davis Comprehensive Cancer Center, Sacramento, CA
- 5:10 p.m. Blood-based biomarkers for lung cancer: Ready for prime time?**
Anil Vachani, University of Pennsylvania, Philadelphia, PA
- 5:35 p.m. Predictive biomarkers for immunotherapy in lung cancer: Opportunities and challenges**
Kurt A. Schalper
- 6:00 p.m. Clinical relevance of circulating microRNAs as lung cancer biomarkers**
Mattia Boeri, Fondazione IRCCS Istituto Nazionale Tumori , Milan, Italy
- 6:25 p.m. Session Discussion**

Wednesday, January 6, 2016

- 7:00 a.m.-8:00 a.m. Continental Breakfast**
Abbey Road and Penny Lane
- 8:00 a.m.-10:00 a.m. Plenary Session 3: Early Detection and Prevention**
Legends 1-4
Session Chairperson: Pierre P. Massion, Vanderbilt University Medical Center, Nashville, TN
- 8:00 a.m. Radiomics of lung cancer**
Robert Gillies, Moffitt Cancer Center and Research Institute, Tampa, FL
- 8:25 a.m. Adenocarcinoma indolence and progression: Biological basis**
Charles A. Powell, Icahn School of Medicine at Mount Sinai, New York, NY
- 8:50 a.m. Tobacco smoke toxicant and carcinogen biomarkers and lung cancer susceptibility in smokers**
Stephen S. Hecht, University of Minnesota Masonic Cancer Center, Minneapolis, MN
- 9:15 a.m. Proximalization therapy for KRas mutant adenocarcinoma**
Mark W. Onaitis, Duke University, Durham, NC
- 9:40 a.m. Session Discussion**
- 10:00 a.m.-10:30 a.m. Break**
Abbey Road

10:30 a.m-12:30 p.m. Plenary Session 4: Immunotherapy
Legends 1-4
Session Chairperson: Roy S. Herbst, Yale University Cancer Center, New Haven, CT

10:30 a.m. Understanding sensitivity and resistance to immune checkpoint inhibitors in oncogene-driven lung cancers
Katerina A. Politi, Yale University, New Haven, CT

10:55 a.m. Targeting PD1 and PDL1 in lung cancer treatment - Where are we now?
Roy S. Herbst

11:20 a.m. Predictive biomarkers for immunotherapy with focus on PDL1 assays
Fred R. Hirsch, University of Colorado Denver, Aurora, CO

11:45 a.m. Beyond monotherapy: Integrating immunotherapy into current treatment regimens
Karen L. Kelly, UC Davis Comprehensive Cancer Center, Sacramento, CA

12:10 p.m. Session Discussion

12:30 p.m-2:30 p.m. Poster Session B with Lunch
Encore & Abbey Road and Penny Lane

2:30 p.m-4:30 p.m. Mid-Conference Keynote Session and How Advocacy is Driving Science
Legends 1-4

2:30 p.m. Application of genomics to guide clinical investigations
Jeffrey A. Engelman, Massachusetts General Hospital, Boston, MA

3:15 p.m. Perspective
Diane Legg, Amesbury, MA

3:30 p.m. How Advocacy Is Driving Science
Session Chairperson: Carolyn Aldigé, Prevent Cancer Foundation

This session will highlight the role of advocates and advocacy organizations in driving science. The relationship of advocates, scientists, and clinicians in the following areas will be discussed: patient-driven data donation, implementation of lung cancer screening in communities, LungMAP trial design, and breakthrough therapy status.

Speakers:

John W. Walsh, Alpha-1 Foundation, Coral Gables, FL
Amy Copeland, Lung Cancer Alliance, Washington, DC
Gregory Michael Lubiniecki, Merck, Kenilworth, NJ
Roy S. Herbst, Yale Cancer Center, New Haven, CT
Diane Legg, Amesbury, MA

- 4:45 p.m-6:45 p.m. Plenary Session 5: Novel Targets and Pathways**
Legends 1-4
Session Chairperson: Vassiliki A. Papadimitrakopoulou, The University of Texas MD Anderson Cancer Center, Houston, TX
- 4:45 p.m. Rationale for novel combinations in lung cancer therapy**
Alex Adjei, Roswell Park Cancer Institute, Buffalo, NY
- 5:10 p.m. MET alterations and therapeutic strategies**
Ravi Salgia, City of Hope, Duarte, CA
- 5:35 p.m. Oncogenic KRAS regulates asparagine synthase**
Alejandro Sweet-Cordero, Stanford University, Stanford, CA
- 6:00 p.m. Epigenetic therapy: Can it improve efficacy of immune checkpoint therapy for patients with lung cancer?**
Stephen B. Baylin, Johns Hopkins University School of Medicine, Baltimore, MD
- 6:25 p.m. Session Discussion**

Thursday, January 7, 2016

- 7:00 a.m.-8:00 a.m. Continental Breakfast**
Abbey Road and Penny Lane
- 8:00 a.m-10:00 a.m. Plenary Session 6: Proffered Talks from Highly Rated Abstracts**
Legends 1-4
*Session Chairperson: Alice T. Shaw, Massachusetts General Hospital
Cancer Center, Boston, MA*
- 8:00 a.m. Novel epidermal growth factor receptor inhibitor accumulates in the brain and inhibits the growth of brain metastatic non-small cell lung cancer***
Nicholas A. Cacalano, UCLA David Geffen School of Medicine, Los Angeles, CA
- 8:15 a.m. Loss of somatostatin receptor 2 expression reduces small cell lung cancer growth and alters cellular metabolism***
Jonathan Merle Lehman, Vanderbilt University Medical Center, Nashville, TN
- 8:30 a.m. Piwi-interacting RNA transcriptome analyses identify cancer type-specific expression and signatures predicting lung tumor behavior***
Victor D. Martinez Zamora, BC Cancer Research Centre, Vancouver, BC, Canada
- 8:45 a.m. The biological impact of e-cigarettes on airway epithelial cell transformation and gene expression***
Stacy Park, University of California, Los Angeles, Los Angeles, CA
- 9:00 a.m. Diagnostic and predictive quantitative-imaging features in lung cancer screening***
Matthew B. Schabath, Moffitt Cancer Center, Tampa, FL
- 9:15 a.m. MET:GRB2 complexes define a subset of lung cancer with potential vulnerability to MET inhibition***
Matthew A. Smith, Moffitt Cancer Center, Tampa, FL
- 9:30 a.m. Regulation of lung adenocarcinoma differentiation and growth by the transcription factors Nkx2-1/TTF1, Foxa1 and Foxa2***
Eric L. Snyder, Hunstman Cancer Institute, Salt Lake City, UT
- 9:45 a.m. Loss of immunoproteasome driven by EMT is associated with immune evasion and poor prognosis in non-small cell lung cancer***
Satyendra C. Tripathi, The University of Texas MD Anderson Cancer Center, Houston, TX
- 10:00 a.m-10:15 a.m. Break**
Abbey Road

*Short talks from proffered abstracts

- 10:15 a.m-12:15 p.m. Plenary Session 7: KRAS Mutant Cancers**
Legends 1-4
Session Chairperson: Jeffrey A. Engelman, Massachusetts General Hospital, Boston, MA
- 10:15 a.m. Targeting K-Ras cancers**
Frank McCormick, UCSF Helen Diller Family Comprehensive Cancer Center, San Francisco, CA
- 10:45 a.m. Stand Up to Cancer: Therapeutic targeting of KRAS mutant cancers**
Justin F. Gainor, Massachusetts General Hospital, Boston, MA
- 11:15 a.m. Impact of co-mutations on the immune microenvironment of KRAS-mutant lung adenocarcinoma**
Ferdinandos Skoulidis, The University of Texas MD Anderson Cancer Center, Houston, TX
- 11:45 a.m. Session Discussion**
- 12:15 p.m. Departure**