WORKSHOP AGENDA

2018 Lung Cancer SPORE Workshop Co-Chairs

David Gerber, M.D.
Associate Professor
UT Southwestern Medical Center
Internal Medicine/Hematology Oncology

Kathryn O’Donnell, Ph.D.
Assistant Professor
UT Southwestern Medical Center
Molecular Biology
Simmons Comprehensive Cancer Center
Hamon Center for Regenerative Science and Medicine

Don Gibbons, M.D., Ph.D.
Associate Professor
MD Anderson Cancer Center
Thoracic Head and Neck Medical Oncology

Elda Railey
Patient Advocate
UT Southwestern Lung Cancer SPORE
Co-Founder
Research Advocacy Network
The 2018 Lung Cancer SPORE Workshop was made possible by financial support provided by the following:

Genentech – Platinum Partner

AstraZeneca – Gold Partner

International Association for the Study of Lung Cancer (IASLC) – Bronze + Partner

Lilly USA – Bronze Partner

THANK YOU TO OUR SPONSORS!
GENERAL INFORMATION

Physical address for workshop location:
    UT Southwestern Medical Center
    Pickens Medical Education & Conference Center
    6001 Forest Park Rd.
    Dallas, TX  75235

Parking at workshop location:
    Parking is available at the workshop location in the Visitor’s Garage for $3.00 per day.

Physical address and phone # for Aloft Hotel:
    2333 Mockingbird Ln.
    Dallas, Texas  75235
    214-358-7575

Phone # for Aloft Hotel Shuttle Service:
    The Aloft Hotel provides free shuttle service to/from Dallas Love Field Airport and UT Southwestern
    214-358-7575, option 1, then option 0.

Workshop Shuttle Service:
    UT Southwestern has contracted a shuttle service to run to/from Aloft Hotel and the Pickens Medical
    Education & Conference Center for approximately 1 ½ hours at the beginning and end of each workshop
day. The exact shuttle service times are listed within the agenda.

Luggage Storage:
    If you are leaving directly from UT Southwestern to the airport, please see one of the administrators
working the workshop registration desk to store your luggage.

Taxi/Cab Service:
    Cowboy Cab – 214-428-0202
    Dallas Yellow Cab – 972-369-3334
    Henry’s Cab Service – 214-234-6666
    On Time Taxi – 214-434-4356

Non-Smoking Facility:
    UT Southwestern is a non-smoking environment, both indoors and outdoors.

Auditorium Restrictions:
    Only bottled water is allowed inside the Pickens Auditorium. Other drinks and food are not allowed.

Need Additional Information or Assistance?
    Call 214-648-4900
Day 1 - Wednesday, June 20, 2018

7:45 am – 9:00 am  Shuttle service from Aloft Hotel to UT Southwestern
Pickens Medical Education & Conference Center
6001 Forest Park Rd., Dallas, TX 75235

8:00 am – 8:45 am  Breakfast Buffet
Pickens Medical Education & Conference Center
Seating is available in NG3.202 as well as the cafeteria
Food is not allowed inside the auditorium

8:45 am  Opening Remarks
John D. Minna, M.D. and Peter Ujhazy, M.D., Ph.D.

8:55 am  Introduction of Keynote Speaker
Paul Bunn, Jr., M.D.

9:00 am  Beyond Broad-Based Genomic Profiling in NSCLC: What’s “Next”?
Vince A. Miller, M.D.

10:00 am – 10:15 am  Break

10:15 am – 11:30 am  Session One: Genomics
Moderator: Robert Doebele, M.D.

Comprehensive T cell repertoire characterization of non-small cell lung cancer
Alexandre Reuben
University of Texas MD Anderson Cancer Center

Genome engineering approaches to generate models of chromosome arm-level aneuploidy in lung cancer
Alison Taylor
DFCI/Broad

Tracing the Innate Genetic Evolution and Spatial Heterogeneity in Treatment Naïve Lung Cancer Lesions
Jihye Kim
University of Colorado Anschutz Medical Campus

Genomic underpinnings of tumor behavior in early lung adenocarcinoma
Jun Qian
Vanderbilt University Medical Center

Thirty Biologically Interpretable Clusters of Transcription Factors Determine Cancer Type
Kevin Coombes
The Ohio State University

Using DNA Mutation and RNA Expression to Match Lung Cancer Cell Line and Patient-Derived Xenograft (PDX) Models with NSCLC and SCLC Tumor Specimens
Luc Girard
University of Texas Southwestern Medical Center
### Session Two: Molecular Targets

**Moderator:** Christine Lovly, M.D., Ph.D.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The role of AXL in ROS1 and RET gene fusion driven lung cancers</td>
<td>Anastasios Dimou</td>
<td>University of Colorado, Anschutz Medical Campus</td>
</tr>
<tr>
<td>Evidence for a TKI-induced inflammatory response during oncogene-targeted therapy in EGFR and EML4-A</td>
<td>Lynn Heasley</td>
<td>University of Colorado, Anschutz Medical Campus</td>
</tr>
<tr>
<td>Targeting Notch3-dependent β-catenin signaling overcomes EGFR TKI mediated drug persistence in NSCLC</td>
<td>Rajeswara Rao</td>
<td>The Ohio State University Medical Center</td>
</tr>
</tbody>
</table>

#### Lunch Buffet

12:10 pm – 1:10pm

- **Lunch Buffet**
  - Pickens Medical Education & Conference Center
  - Seating is available in NG3.202 as well as the cafeteria
  - Food is not allowed inside the auditorium

#### Session Three: Response/Resistance

**Moderator:** Katerina Politi, Ph.D.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromatin Modifiers as Mediators of Drug Resistance in Lung Cancer</td>
<td>Fernando de Miguel</td>
<td>Yale Cancer Center, Yale School of Medicine</td>
</tr>
<tr>
<td>Mechanisms of acquired resistance to first-line osimertinib in mouse models of EGFR mutant NSCLC</td>
<td>Jacqueline Starrett</td>
<td>Yale University School of Medicine</td>
</tr>
<tr>
<td>The derivation of unique patient-derived lung cancer cell lines for drug resistance studies and therapeutic development.</td>
<td>Robert Doebele</td>
<td>University of Colorado</td>
</tr>
<tr>
<td>Defining Mechanisms of Resistance to ALK Inhibitor Therapy</td>
<td>Vincent Huang</td>
<td>Vanderbilt University</td>
</tr>
</tbody>
</table>

#### Session Four: Immunotherapy I

**Moderator:** David Carbone, M.D., Ph.D.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>In situ vaccination with autologous CCL21 gene-modified dendritic cells for NSCLC</td>
<td>Steven Dubinett</td>
<td>University of California at Los Angeles</td>
</tr>
<tr>
<td>STK11/LKB1 Mutations and PD-1 Inhibitor Resistance in KRAS-Mutant Lung Adenocarcinoma</td>
<td>Ferdinandas Skoulidis</td>
<td>University of Texas MD Anderson Cancer Center</td>
</tr>
</tbody>
</table>
Session Four: Immunotherapy I Cont.

- Immunofluorescence Profiling of Lung Cancer Tumor and Stroma Environment
  
  Boris Sepeski
  University of Texas MD Anderson Cancer Center

- Factor XIII-A-Expressing Inflammatory Monocytes Promote Lung Squamous Cancer through Fibrin Cross-Linking
  
  Chad Pecot
  University of North Carolina

- Tuning tumor microenvironment with CD38 blockade to enhance lung cancer immunotherapy
  
  Limo Chen
  University of Texas MD Anderson Cancer Center

- Radiomic predictors of rapid disease progression among NSCLC patients treated with immunotherapy
  
  Matthew Schabath
  H. Lee Moffitt Cancer Center and Research Institute

3:15 pm – 3:30 pm  Break

3:30 pm – 4:30 pm  Session Five: Metabolism

Moderator: Pierre Massion, M.D.

- LKB1 and KEAP1/NRF2 pathways cooperatively promote glutamine dependence
  
  Ana Galan-Cobo
  University of Texas MD Anderson Cancer Center

- TMPRSS11B promotes lung cancer growth by enhancing lactate export and glycolytic metabolism.
  
  Barrett Updegraff
  University of Texas Southwestern Medical Center

- Evaluating metabolic preferences in human lung cancer
  
  Brandon Faubert
  University of Texas Southwestern Medical Center

- Inhibition of Glutamine Metabolism Increases Radiation Sensitivity in an In Vitro Model of NSCLC
  
  Christien Kluwe
  Vanderbilt University Medical Center

- STK11 pathway disruption alters metabolism and immune surveillance in lung adenocarcinoma
  
  Nick Gimbrone
  Moffitt Cancer Center

4:30 pm – 6:00 pm  Shuttle service from UT Southwestern to Aloft Hotel

2333 Mockingbird Ln., Dallas, TX  75235
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 pm</td>
<td>Reception</td>
<td>Aloft Hotel – Foyer West Love Ballroom</td>
</tr>
<tr>
<td>7:00 pm</td>
<td>Dinner Buffet</td>
<td>Aloft Hotel – West Love Ballroom</td>
</tr>
<tr>
<td>7:55 pm</td>
<td>Introduction of Keynote Speaker</td>
<td>John Heymach, M.D.</td>
</tr>
<tr>
<td>8:00 pm</td>
<td>Affording Progress in Lung Cancer</td>
<td>Natasha B. Leighl, M.D.</td>
</tr>
</tbody>
</table>
Day 2 - Thursday, June 21, 2018

7:45 am – 9:00 am  Shuttle service from Aloft Hotel to UT Southwestern  
Pickens Medical Education & Conference Center  
6001 Forest Park Rd., Dallas, TX  75235

8:00 am – 8:45 am  Breakfast Buffet  
Pickens Medical Education & Conference Center  
Seating is available NG3.202 as well as the open cafeteria  
Food is not allowed inside the auditorium

8:45 am  Introduction of Keynote Speaker  
Jack Roth, M.D.

8:50 am  Contemporary Approaches to Nodule and Lung Cancer Classification  
Denise “Deni” R. Aberle, M.D.

9:50 am – 10:05 am  Break

10:05 am – 10:45 am  Session Six:  Early Detection  
Moderator:  Steven Dubinett, M.D.

<table>
<thead>
<tr>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iloprost improves airway premalignant dysplasia by rescuing basal</td>
<td>Moumita Ghosh</td>
<td>National Jewish Health</td>
</tr>
<tr>
<td>progenitor cell malfunction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Genomic characterization of premalignant lung squamous cell</td>
<td>Joshua Campbell</td>
<td>Boston University School of Medicine</td>
</tr>
<tr>
<td>carcinoma lesions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elucidating genomic evolution in the progression from lung</td>
<td>Jianjun Zhang</td>
<td>University of Texas MD Anderson Cancer Center</td>
</tr>
<tr>
<td>preneoplasia to adenocarcinoma through multi-regional sequence</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

10:45 pm – 12:15 pm  Session Seven:  Patient Advocacy  
Moderators:  David Gerber, M.D. and Elda Railey

<table>
<thead>
<tr>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>QTc interval-prolonging medications:  implications for lung cancer</td>
<td>David Gerber</td>
<td>University of Texas Southwestern Medical Center</td>
</tr>
<tr>
<td>clinical trial eligibility</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oncogene-Driven Patient Groups: A New Era for Research Partnerships</td>
<td>Janet Freeman-Daily</td>
<td>University of Colorado</td>
</tr>
<tr>
<td>Discussion:  Capitalizing on the Success of the Metastatic Breast</td>
<td>Christine Lovly</td>
<td>Vanderbilt University</td>
</tr>
<tr>
<td>Cancer Project</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2018 Lung Cancer SPORE Workshop
Session Seven: Patient Advocacy Cont.

Patient Advocate Panel Discussion
Deb Violette, Janet Freeman-Daily, Kim Norris, Merel (Mountain) Nissenberg, Judy Johnson, Marcia Horn

12:15 pm – 1:15pm Lunch Buffet
Pickens Medical Education & Conference Center
Seating is available in NG3.202 as well as the cafeteria
Food is not allowed inside the auditorium

1:15 pm – 1:55 pm Session Eight: Small Cell
Moderator: Lauren Byers, M.D.

Single-cell profiling of small cell lung cancer circulating tumor cell-derived xenograft models reveals intratumoral heterogeneity among mediators of chemoresistance
C. Allison Stewart
University of Texas MD Anderson Cancer Center

Inosine monophosphate dehydrogenase dependence in a subset of small cell lung cancers
Fang Huang
University of Texas Southwestern Medical Center

Evaluating transcription factor networks as targets for the treatment of small cell lung cancer
Karine Pozo
University of Texas Southwestern Medical Center

1:55 pm – 2:35 pm Session Nine: Metastasis
Moderator: Don Gibbons, M.D.

Single cell sequencing of tumor stromal fibroblasts coupled with 3D model to study EMT-driven interactions between cancer associated fibroblasts and lung adenocarcinoma cells that drive early metastasis
Maria Neus Bota-Rabassedas
University of Texas MD Anderson Cancer Center

Epigenetic alterations by chronic inflammation dictates sustained EMT phenotypes in NSCLC
Rui Li
University of California at Los Angeles

In Vivo Functional Screening Identifies Novel Drivers of Metastasis in Lung Cancer
Samrat Kundu
University of Texas MD Anderson Cancer Center

2:35 pm – 2:50 pm Break
2:50 pm – 4:05 pm  Session Ten: Immunotherapy II
Moderator: Roy Herbst, M.D., Ph.D.

Response of Lung Cancer Cells to IFNg Changes the TME and Alters Response to anti-PD-1
Raphael Nemenoff
University of Colorado

Investigating anti-tumor T cells in genetically engineered mouse models of lung adenocarcinoma
Nikhil Joshi
Yale School of Medicine

Future Immunotherapy for Lung Cancer
Lipeng Chen
Yale School of Medicine

Immune dysregulation in cancer patients developing immune-related adverse events
Shaheen Khan
University of Texas Southwestern Medical Center

A CRISPR/Cas9 screen reveals new mechanisms of PD-L1 regulation by a stress response pathway in NSCLC
Shruthy Suresh
University of Texas Southwestern Medical Center

Superior efficacy of neoadjuvant compared to adjuvant immunotherapy in non-small cell lung cancer is associated with increased antitumor immunity and a polyclonal TCR repertoire
Tina Cascone
University of Texas MD Anderson Cancer Center

4:05 pm – 5:30 pm  Shuttle service from UT Southwestern to Aloft Hotel
2333 Mockingbird Ln., Dallas, TX 75235