



## Lung Cancer Workshop VIII

### Application of Quantitative CT Imaging to

### Early Lung Cancer Management: Accelerating Progress

May 2 - 3, 2011 • Bethesda, Maryland • USA

## A G E N D A

### Day One - Monday, May 2

#### 7:30 AM Continental Breakfast – Grand Ballroom Foyer

8:00 – 10:00 AM Session Chairs: Carolyn R. Aldigé, *Prevent Cancer Foundation*

Thomas M. Baer, PhD, *Optical Society of America (OSA), Stanford Photonics Research Ctr.*

8:00 AM Welcome

*Grand Ballroom A & B*

- Carolyn R. Aldigé, *Prevent Cancer Foundation*
- Thomas M. Baer, PhD, *Optical Society of America (OSA), Stanford Photonics Research Center*

8:10 AM Overview and Workshop Goals

- James L. Mulshine, MD, *Rush University Medical Center*

8:30 AM Towards the Evaluation of 3D Tumour Volume for Use in Response Assessment

- Marietta L. J. Scott, PhD, *AstraZeneca UK Limited*

9:00 AM Tightening Variance: Role of Phantom Integration in Quantitative Imaging

- Ricardo S. Avila, *Kitware, Inc.*

9:30 AM Approach to Biomarker Qualification

- Enrique E. Aviles, BSME, *Critical Path Institute*

#### 10:00 AM 15-Minute Break

10:15 - 12:30 PM Session Chair: David F. Yankelevitz, MD, *Mt. Sinai Medical Center*

10:15 AM RSNA's QIBA Volumetric CT: Rolling Towards Qualification

- Andrew J. Buckler, MS, *Buckler BioMedical LLC*

10:30 AM Moving to Automated VIA in Clinical Trials: Changes According to Nodule Characteristics

- David F. Yankelevitz, MD, *Mt. Sinai Medical Center*

11:00 AM Toward Quantitative X-ray CT Phantoms of Metastatic Tumors Using Rapid Prototyping Technology

- Terry S. Yoo, PhD, *National Library of Medicine*

11:30 AM Empowering Quantitative Research: How Do We Nurture Sustainable Innovation?

- Susan A. Wood, *Vida Diagnostics*

12:00 PM Exploring Models for Integrating Quantitative Imaging in a National Infrastructure to Improve Lung Cancer Outcomes: View From Silicon Valley

- Thomas M. Baer, PhD, *Optical Society of America (OSA), Stanford Photonics Research Center*

## Day One - Monday, May 2 continued ...

### 12:30 PM Lunch - Kenwood/Montrose/Great Falls Room

1:30 - 2:55 PM Session Chair: Ricardo S. Avila, *Kitware, Inc.*

1:30 PM Panel: Algorithm Validation Process Discussion: Practical Labor of  
*Grand Ballroom A & B* Image Processing Challenges

Moderator: Ricardo S. Avila, *Kitware, Inc.*

- Wesley D. Turner, PhD, *Kitware, Inc.*
- Raul San Jose Estepar, PhD, *Brigham and Women's Hospital – Harvard Medical School*
- Anthony P. Reeves, PhD, *Cornell University*

2:30 PM Status of the NCI Quantitative Imaging Network

- Laurence P. Clarke PhD, *National Cancer Institute (NCI)*

2:50 PM Introduction to Breakout Group Process

- James L. Mulshine, MD, *Rush University Medical Center*

### 2:55 PM 5-Minute Break

3:00 – 3:45 PM Breakout Group Work Session 1

*Potomac/  
Bethesda Room*

#### **Group A: Strategic Planning Accelerating Qualification Through Process Optimization**

- Facilitators: Ricardo S. Avila, *Kitware, Inc.*  
Andrew J. Buckler, MS, *Buckler BioMedical LLC*  
Marietta L. J. Scott, PhD, *AstraZeneca UK Limited*

*Montgomery/  
Democracy Room*

#### **Group B: Strategic Planning: Exploring Models for Implementing a National Infrastructure for Quantitative Imaging in Early Lung Cancer Management**

- Facilitators: Thomas M. Baer, PhD, *OSA, Stanford Photonics Research Center*  
Laurie Fenton Ambrose, *Lung Cancer Alliance*  
Carolyn R. Aldigé, *Prevent Cancer Foundation*

### 3:45 PM 5-Minute Break

3:50 - 5:30 PM Session Chair: Raul San Jose Estepar, PhD, *Brigham & Women's Hosp.-Harvard Med. Sch.*

3:50 PM CT Imaging Progress with COPD

- Raul San Jose Estepar, PhD, *Brigham and Women's Hospital – Harvard Medical School*

4:10 PM Quality Control Of Quantitative Lung Imaging In A Multi-center Trial:  
COPDGen Experience

- Jered Sieren, BS RT(R) CT MR, *University of Iowa*

4:30 PM Quantitative Approaches to the Pathological Evaluation of NSCLC

- Jessica C. Sieren PhD, *University of Iowa*

4:50 PM CT Approach to Measuring Other Tobacco-related Injury During Cancer  
Screening

- Claudia I. Henschke, PhD, MD, *Mt. Sinai Medical Center*

## Day One - Monday, May 2 continued ...

- 5:10 PM Panel: Lung Cancer and COPD: Collaboration Opportunities with Phantoms Archives and Algorithms  
Moderator: Raul San Jose Estepar, PhD, *Brigham & Women's Hospital – Harvard Medical School*
- Jered Sieren, BS RT(R) CT MR, *University of Iowa*
  - Susan A. Wood, *Vida Diagnostics*
  - Anthony P. Reeves, *Cornell University*

**5:30 PM Meeting Adjourns for the Day**

**6:30 PM Departure for Reception and Dinner, the Cosmos Club**

Please be in the hotel lobby no later than 6:15 PM to board the bus.

## Day Two - Tuesday, May 3

### 7:30 AM Continental Breakfast – Grand Ballroom Foyer

- 8:00 AM - 2:45 PM Session Chair: James L. Mulshine, MD, *Rush University Medical Center*
- 8:00 AM New Image Processing Resources  
*Grand Ballroom A & B*
- Anthony P. Reeves, PhD, *Cornell University*
- 8:30 AM QIBA 1A: Evaluation of Nodule Sizing by Radiologists through CT Phantom Imaging of Synthetic Nodules
- Nicholas Petrick, PhD, *U.S. Food and Drug Administration (FDA)*
- 9:00 AM U.S. Latin American Clinical Research Network: An Opportunity to Collaborate on Quantitative Imaging Research
- Jorge Gomez, MD, PhD, *National Institutes of Health (NIH)*
- 9:30 AM Personalizing Early Lung Cancer Clinical Trials
- Natasha Leighl, MD, *Princess Margaret Cancer Center*

### 10:00 AM 5-Minute Break

- 10:05 AM Breakout Group Work Session 2  
*Potomac/ Bethesda Room*
- Group A: Strategic Planning: Accelerating Qualification Through Process Optimization**
- Facilitators: Ricardo S. Avila, *Kitware, Inc.*  
Andrew J. Buckler, MS, *Buckler BioMedical LLC*  
Marietta L. J. Scott, PhD, *AstraZeneca UK Limited*
- Group B: Strategic Planning: Exploring Models for Implementing a National Infrastructure for Quantitative Imaging in Early Lung Cancer Management**
- Facilitators: Thomas M. Baer, PhD, *OSA, Stanford Photonics Research Center*  
Laurie Fenton Ambrose, *Lung Cancer Alliance*  
Carolyn R. Aldigé, *Prevent Cancer Foundation*
- 11:00 AM Panel: Image Qualification: Where Are We? Perception and Reality  
*Grand Ballroom A & B*
- Moderator: P. David Mozley, MD, *Merck Pharmaceutical*
- Gary J. Kelloff, PhD, *National Cancer Institute (NCI)*
  - Andrew J. Buckler, MS, *Buckler BioMedical LLC*
  - Enrique E. Aviles, BSME, *Critical Path Institute*
- 11:30 AM Panel: Image Archives: Where Are They and What Next?
- Moderator: Raul San Jose Estepar, PhD, *Brigham & Women's Hospital – Harvard Medical School*
- Status of "Give A Scan" Update: Laurie Fenton Ambrose, *Lung Cancer Alliance*
  - Terry S. Yoo, PhD, *National Library of Medicine*
  - Charles Fenimore, PhD, *National Institute of Standards & Techniques (NIST)*

### 12:30 PM Lunch - Kenwood/Montrose/Great Falls Room

- 1:30 PM Progress in Quantitative Imaging Trial: Industry Perspective  
*Grand Ballroom A & B*
- P. David Mozley, MD, *Merck & Co., Inc*
- 2:00 PM Breakout Group Reports
- Group A:** Strategic Planning: Accelerating Qualification Through Process Optimization
- Group B:** Strategic Planning: Exploring Models for Implementing ...
- 2:30 PM Meeting Conclusion and Action Plans Moving Forward
- James L. Mulshine, MD, *Rush University Medical Center*

### 2:45 PM Program Concludes