### 4th International Workshop on Pulmonary Functional Imaging

(Lecture titles are tentative)

**Thursday, September 24, 2009**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 – 8:00</td>
<td>Registration and buffet breakfast</td>
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<tr>
<td>8:00 – 8:10</td>
<td>Opening remarks – Hiroto Hatabu</td>
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<tr>
<td>8:10 – 8:20</td>
<td>Welcome – James Gee, Augustine Choi</td>
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**Morning Session**

**Imaging Modalities for the Lung**

*Moderator* S. Patz, M. Albert

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:20 – 8:30</td>
<td>Introduction</td>
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<tr>
<td>8:30 – 9:15</td>
<td>CT H. Coxson</td>
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<tr>
<td>9:15 – 10:00</td>
<td>PET; Quantitative, Sensitive and Versatile Molecular Imaging</td>
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<tr>
<td>10:00 – 10:30</td>
<td>Coffee Break</td>
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<tr>
<td>10:30 – 12:30</td>
<td>MRI</td>
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<tr>
<td>10:30 – 10:50</td>
<td>Proton MRI – Oxygen Enhanced MRI Y. Ohno</td>
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<tr>
<td>10:50 – 11:10</td>
<td>Proton MRI – Fourier Decomposition MRI L. Schad</td>
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<tr>
<td>11:10 – 11:30</td>
<td>Hyperpolarized ³He MR Imaging of the Lung G. Santyr</td>
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<tr>
<td>11:30 – 11:50</td>
<td>Hyperpolarized ¹²⁹Xe MRI K. Ruppert</td>
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<td>11:50 – 12:10</td>
<td>Physiological Perspective J. Butler</td>
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<tr>
<td>12:10 – 13:30</td>
<td>LUNCH</td>
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**Afternoon Session**

**Interstitial Lung Disease**

*Moderator* I. Rosas

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>13:30 – 13:40</td>
<td>Introduction</td>
</tr>
<tr>
<td>13:40 – 14:20</td>
<td>State of the Art of IPF G. Hunninghake</td>
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<tr>
<td>14:20 – 15:00</td>
<td>Molecular Underpinning of IPF M. Selman</td>
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<td>15:00 – 15:20</td>
<td>Coffee Break</td>
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<tr>
<td>15:20 – 15:40</td>
<td>Early ILD I. Rosas</td>
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<td>15:40 – 16:00</td>
<td>Stiffness as a tipping point in Pr. Fibrosis F. Liu</td>
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<td>16:00 – 16:15</td>
<td>Hyperpolarized ¹²⁹Xe in ILD S. Patz</td>
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<tr>
<td>16:15 – 16:45</td>
<td>Biomechanics with post-processing J. Gee</td>
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<td>16:45 – 17:30</td>
<td>Poster Session</td>
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<tr>
<td>17:30 – 18:30</td>
<td>Special Lecture “Looking back and looking forward“ L. Reid</td>
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<td>18:30</td>
<td>Reception and Dinner</td>
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**Friday, September 25, 2009**

**Morning Session**  
Lung Cancer and Mesothelioma

- **8:00 – 8:10**  
  Introduction

- **8:10 – 8:50**  
  Molecular Basis and Targeted Therapy for Lung Cancer  
  B. Johnson

- **8:50 – 9:10**  
  Tumor Measurements and Volumetry  
  M. Nishino

- **9:10 – 9:50**  
  Treating patients with Mesothelioma  
  D. Sugarbaker

- **9:50 – 10:10**  
  Imaging of Mesothelioma  
  R. Gill

- **10:10 – 10:40**  
  PET Imaging of Lung Cancer and Mesothelioma  
  V. Gerbaudo

- **10:40 – 11:10**  
  System Biology of Cancer  
  S. Wong

- **11:10 – 12:00**  
  **Poster Session**

- **12:00 – 13:00**  
  **LUNCH**

**Afternoon Session**  
COPD

Moderator  
G. Washko

- **13:00 – 13:10**  
  Introduction  
  R. Brown

- **13:10 – 13:35**  
  Update on NIH COPDgene study  
  E. Silverman

- **13:35 – 14:00**  
  Imaging in Clinical Trial: Past, Present and Future  
  J. Reilly

- **14:00 – 14:30**  
  CT and COPD  
  M. Mishima

- **14:30 – 14:50**  
  **Coffee Break**

- **14:50 – 15:10**  
  Hyperpolarized $^3$He, Quantitative ADC  
  D. Yablonskiy

- **15:10 – 15:30**  
  Diffusion Weighted Imaging in Obstructive Lung Disease  
  S. Fain

- **15:30 – 16:00**  
  PET and COPD  
  R. S. Harris

- **16:00 – 16:10**  
  *  

- **16:10 – 16:20**  
  *  

- **16:20 – 16:50**  
  The Future of COPD/ Lung Regeneration  
  E. Ingenito

- **17:00 – 17:50**  
  What Makes a Good Lung?  
  The Morphometric basis of Lung Function  
  (Presented by Dr. James Butler)

* To be selected from submitted abstracts.
Saturday, September 26, 2009

Morning Session: Pulmonary Hypertension
Moderator: M. Perrella

8:00 – 8:10  Introduction
8:10 – 8:40  Pulmonary Hypertension: basic research  T. Kulik
8:40 – 9:10  Pulmonary Hypertension: clinical aspect  S. Kourembanas
9:10 – 9:25  CT assessment of Pulmonary Hypertension  G. Washko
9:25 – 9:40  MR assessment of Pulmonary Hypertension  Y. Ohno
9:40 – 9:50  *
9:50 – 10:00  *

10:00 – 10:20am  Coffee Break

10:20 – 11:00  iLEAD Update  H-U. Kauczor, Y. Ohno
11:00 – 12:00  LAM Treatment Alliance  A. Farber
12:00 – 12:15  Closing Remarks

* To be selected from submitted abstracts.