

PRELIMINARY PROGRAM
15th INTERNATIONAL COLLOQUIUM ON LUNG AND AIRWAY FIBROSIS
SUNSET BEACH, NORTH CAROLINA
SEPTEMBER 28 – OCTOBER 1, 2008

Sunday, September 28:

8:00 PM: Welcome Dinner

Monday, September 29:

7:00 AM BREAKFAST

7:45 AM Assembly

7:55 AM Welcome

8:00 AM *Keynote Address:* "Epithelial-Mesenchymal Interactions in Lung Remodeling"

Jeffrey Whitsett, M.D. (University of Cincinnati, Cincinnati, OH)

SESSION 1: AIRWAY REMODELING

Chairs/Discussion leaders: Jack Elias, M.D. (Yale University, New Haven, CT), Monica Kraft, M.D. (Duke University, Durham, NC) and Kenneth Adler, Ph.D. (NC State University, Raleigh, NC)

Speakers:

8:45 – 9:15: Featured speaker: Jack Elias, M.D. (Yale University, New Haven, CT) "Transgenic Modeling of Injury and Repair in the Lung"

9:15 – 9:30: Platform Presentation: Gerard Cox (McMaster University, Canada) "Potential for Bronchial Thermoplasty to Reverse Airway Remodeling Associated with Asthma"

9:30 – 9:45: Platform Presentation: Jennifer Ingram (Duke University Medical Center, Durham, NC) "Dexamethasone Suppresses IL-13R α 2 Expression in Airway Fibroblasts in Asthma"

9:45 – 10:15: Featured speaker: Victor Thannickal, M.D. (University of Michigan, Ann Arbor, MI) "The Oxygen Paradox in Lung Repair and Fibrosis"

Coffee Break: 10:15 – 10:45 AM

SESSION 2: EPITHELIAL CELL BIOLOGY

Chairs/Discussion leaders: Kenneth Adler, Ph.D. (North Carolina State University, Raleigh, NC) and Oliver Eickelberg, M.D. (University of Giessen, Giessen, Ger)

Speakers:

10:45 – 11:15 : Featured speaker: Robert Strieter, M.D. (University of Virginia, Charlottesville, VA) "Fibrocytes as Cellular Mediators of Pulmonary Fibrosis"

11:15 – 11:30: Platform Presentation: Martina Korfei (University of Giessen) "Defective Surfactant Protein (SP)-B Procession Causes Epithelial Endoplasmic Reticulum Stress in IPF and NSIP"

**11:30 – 11:45: Platform Presentation: Lisa Young (University of Cincinnati)
“Susceptibility to Pulmonary Fibrosis in Hermansky Pudlak Mice is Associated with Accelerated Type II Cell Apoptosis and More Proximal Trafficking Defects”**

**11:45 – 12:00: Platform Presentation: Tracy McMillan (University of Michigan)
“Gammaherpesvirus Can Induce Alveolar Epithelial Cell Apoptosis by Increasing Endoplasmic Reticulum Stress and Pro-Apoptotic Cytokines”**

**12:00 – 12:15: Platform Presentation: Melanie Königshoff (University of Giessen)
“Functional WNT Signaling is Increased in Idiopathic Pulmonary Fibrosis”**

12:15 – 12:30 : Platform Presentation: Dianhua Jiang (Duke University Medical Center, Durham, NC) “Chemokine CXCL10 Promotes Lung Epithelial Repair”

LUNCH: 12:30 – 1:30 PM

SESSION 3: FIBROBLAST BIOLOGY

Chairs/Discussion leaders: Geoffrey Laurent, Ph.D. (University College, London, UK) and Sem Phan, M.D., Ph.D. (University of Michigan, Ann Arbor)

Speakers:

1:30– 2:00: Featured speaker: Rachel Chambers, Ph.D. (University College London, UK) “Local Procoagulant Signaling in Pulmonary Fibrosis”.

**2:00 – 2:15: Platform Presentation: Aaron Froese (McMaster University)
“Mechanical Stimulation of Fibrotic Lung Tissue Causes TGF β Activation”**

**2:15 – 2:30: Platform Presentation: Malgorzata Wygrecka (University of Giessen)
“Connective Tissue Growth Factor Promotes Human Lung Fibroblast Proliferation Through β 1 Integrin-Mediated LDL Receptor-Related Protein 1 Signaling”**

2:30 – 2:45: Platform Presentation: James Hagood (University of Alabama at Birmingham) “Regulation of the Fibrosis Suppressor THY-1 by Promoter Methylation and Chromatin Modification”

2:45– 3:15: Featured speaker: Sem Phan, M.D., Ph.D. (University of Michigan, Ann Arbor) “Telomeres, Telomerase and Pulmonary Fibrosis”

Break 3:15 – 3:45 PM

SESSION 4 : EPITHELIAL-MESENCHYMAL TRANSITION

Chairs/Discussion leaders: James Hagood, M.D. (University of Alabama, Birmingham, AL) and Hal Chapman, M.D. (University of California, San Francisco, CA)

Speakers:

3:45– 4:15: Featured speaker: Hal Chapman, M.D. (University of California, San Francisco, CA) “Regulation of Lung EMT by Epithelial Integrins”

4:15 – 4:30: Platform Presentation: Joe Lasky (Tulane Medical School, New Orleans, LA) “Type II HDACS are Essential for Cellular Differentiation into Myofibroblasts”

4:30 – 4:45 Platform Presentation: Kusum Pandit (University of Pittsburgh) “Regulation and Potential Role of let-7d microRNA in Epithelial Mesenchymal Transition and Fibrosis”

4:45 – 5:00: Platform Presentation: Paul Wolters (University of California San Francisco) “Human Alveolar Type II Cells Acquire Features of Mesenchymal Cells When Cultured on Fibronectin”

Poster Session I: Posters are to be put up Monday by 1:30 PM and left for entire day with presenting authors attending their work between **7 and 9 PM**.

Dinner: 6:30 PM

9:00 PM: Adjourn for the evening

Tuesday, September 30:

7:00 AM BREAKFAST

SESSION 5 : PROGENITOR CELLS

Chairs/Discussion leaders: Arnold Brody, Ph.D. (North Carolina State University, Raleigh) and Barry Stripp, Ph.D. (Duke University, Durham, NC)

Speakers:

8:00– 8:30: Featured speaker: Barry Stripp, Ph.D. (Duke University, Durham, NC) “Manipulation of Bronchiolar Reparative Capacity”

8:30 – 8:45: Platform Presentation: Li Liu (NYU School of Medicine, New York, NY) “Activated Sonic Hedgehog (Shh) Signaling in Bleomycin Induced Lung Fibrosis”

8:45 – 9:00: Platform Presentation: Arnold Brody (NC State University) “Mouse Bone Marrow-Derived and Human Cord Blood Mesenchymal Stem Cells Release Wnt and TGF β that Mediate Lung Fibroblast Proliferation and Matrix Production”

9:00– 9:30: Featured speaker: Luis Ortiz, M.D. (University of Pittsburgh, Pittsburgh, PA) “CD44 Regulation of Mesenchymal Stem Cell Engraftment in Fibrotic Lung”

9:30 – 9:45: Platform Presentation: Steven Mutsaers (University of Western Australia) “GP130-STAT3 Signaling Regulates the Development of Bleomycin-Induced Mouse Lung Fibrosis Independent of SMAD3”

9:45 – 10:00: Platform Presentation: Roxana Teisanu (Duke University) “Prospective Isolation of Bronchiolar Stem Cells”

Coffee Break: 10:00 – 10:30 AM

SESSION 6: MATRIX REGULATION

Chairs: Philip Sannes, Ph.D. (NC State University, Raleigh, NC) and Dean Sheppard, M.D. (University of California, San Francisco, CA)

Speakers:

10:30– 11:00: Featured speaker: Dean Sheppard, M.D. (University of California, San Francisco, CA) “Integrin-Mediated Activation of TGF β ”

11:00 – 11:15: Platform Presentation: Yuejuan Li, (Duke University) “Transgenic Overexpression of Hyaluronan by α -Smooth Muscle Expressing Cells Enhances Inflammation, Fibrogenesis after Non-infectious Lung Injury”

11:15 – 11:30: Platform Presentation: Lynne Murray (Promedior Pharma and Yale University) “Human Serum Amyloid P Attenuates TGF- β 1 Induced Pulmonary Fibrosis”

11:30– 12:00: Featured speaker: Oliver Eickelberg, M.D. (University of Giessen, Giessen, Ger) “TGF β -Dependent Transcriptional Programming in Lung Fibrosis”

12:00 – 12:15: Platform Presentation: Philip Sannes (NC State University) “Changes in Expression of Forkhead Transcription Factors and TGF- β 1 and WNT Signaling During Differentiation of Alveolar Epithelial Cells *In Vitro*”

12:15 – 12:30: Platform Presentation: Barry Shea (Massachusetts General Hospital, Boston, MA) “Inhibition of Lysophospholipid Signaling in Lung Fibrosis”

LUNCH: 12:30

Tuesday Afternoon: Free time: Organized trips, golf, bird watching on Sunset Beach, etc.

Poster Session II: Posters are to be put up Tuesday by 1:30 PM and left for entire day with presenting authors attending their work between **5:30 and 7:30 PM.**

7:30: Dinner and Young Investigator Awards

N.C. Seafood Buffet with Live Bluegrass Music by *The Charles Pettie Trio*

Wednesday, October 1

7:00 AM BREAKFAST

SESSION 7: GENETICS AND GENOMICS

Chairs/Discussion leaders: Naftali Kaminski, M.D. (University of Pittsburgh) and Paul Noble, M.D. (Duke University, Durham, NC)

Speakers:

8:00 – 8:30: Featured speaker: Naftali Kaminski, M.D. (University of Pittsburgh) “Size Does Not Matter - Small and Large RNAs Determine the Lung Phenotype in IPF”

**8:30 – 8:45: Platform Presentation: Kazuhisa Konishi (University of Pittsburgh)
“Gene Expression Profiles Highlight Role of Epithelial Injury in Acute
Exacerbations of Idiopathic Pulmonary Fibrosis”**

**8:45 – 9:00: Featured speaker: David Schwartz, M.D. (National Jewish Medical and
Research Center, Denver, CO) “Common Variants of MUC5AC Play a Role in the
Development of Familial Interstitial Pneumonia and Idiopathic Pulmonary Fibrosis”**

**9:00– 9:30: Platform Presentation: Martin Kolb (McMaster University, Hamilton,
ON, Ca) “Gene Transfer of the BMP-Antagonist Gremlin Induces Fibroblastic Foci
in Rat Lungs”**

**9:30 – 9:45: Platform Presentation: Matt Kottmann (University of Rochester School
of Medicine) “Metabolomic Analysis Identifies Novel Pathways Dysregulated in
Mouse and Human Pulmonary Fibrosis”**

Coffee Break: 9:45 – 10:15 AM

SESSION 8: CLINICAL ISSUES

**Chairs/Discussion leaders: Robert Strieter, M.D. (University of Virginia,
Charlottesville, VA) and David Schwartz, M.D. (National Jewish Medical and
Research Center, Denver, CO)**

Speakers:

**10:15– 10:45: Featured speaker: Ronald Du Bois, M.D. (National Jewish Medical
and Research Center, Denver, CO) “Clinical Trials in IPF: Problems and Progress”**

**10:45 – 11:00: Platform Presentation: Antje Prasse (University Medical Center
Freiburg, Ger) “Serum CC-Chemokine Ligand 18 (CCL18) Concentration Predicts
Outcome in Idiopathic Pulmonary Fibrosis”**

**11:00 – 11:15: Platform Presentation: Gilbert Morris (Tulane Medical Center, New
Orleans, LA) “Induction of Pro-Fibrogenic Inflammation in the Lung by the
Epstein-Barr virus ZTA Protein”**

**11:15 – 11:30: Platform Presentation: Annika Andersson Sjöland (Lund University,
Lund, Swe) “Fibrocyte Recruitment is Due to Vessel Remodeling in Patient with
Bronchiolitis after Transplantation”**

**11:30 – 11:45: Platform Presentation: Ivan Rosas (Brigham and Women’s Hospital,
Boston, MA) “MMP1 and MMP7 as Potential Peripheral Blood Biomarkers in
Idiopathic Pulmonary Fibrosis”**

**11:45– 12:15: Featured speaker: Talmadge King, M.D. (University of California, San
Francisco) “Assessing Efficacy in the Treatment of IPF: What Endpoints?”**

**12:15- Plans for future conferences: Any individual or group that would like to host
the next meeting in 2010 or a future conference should be prepared to make a brief
presentation indicating a prospective venue for consideration.**

FAREWELL

LUNCH: 12:30

DEPARTURE