

# LungMAP at ATS 2017



**LungMAP**

Molecular Atlas of Lung  
Development Program

On the following pages are presentations and posters by our members. We hope this helps guide you to opportunities to connect with other members of LungMAP while attending ATS.

We're looking forward to seeing many of you at this year's ATS conference!

## [Attend the LungMAP Session](#)

**DATE:** Sunday, May 21, 2017

**TIME:** 12:15 – 1:15pm PT

**LOCATION:** Walter E. Washington Convention Center  
Room 146C (Middle Building, Street Level)

Please join us to learn the newest datasets and features of LungMAP, understand and learn the innovative technologies for molecular profiling and imaging of the developing lung, and learn how to access the LungMAP resources.

# LungMAP at ATS 2017

## Presentations

### Sunday May 21

9:15 AM - 11:15 AM | [A21] RAPID: RAPID ABSTRACT POSTER DISCUSSION  
**IMMUNE MECHANISMS OF SARCOIDOSIS AND OTHER GRANULOMATOUS DISEASES**  
P602 Race Distinct Gene Expression Patterns in Peripheral Blood Mononuclear Cells and Bronchoalveolar Lavage Cells of Sarcoidosis Subjects [Publication Number: A1055]  
**LungMAP Member:** Naftali Kaminski, MD  
**Session Info:** Walter E. Washington Convention Center, Room 206 (South Building, Level 2)  
Abstract Summaries 9:15-9:45  
Poster Viewing/Discussion 9:45-11:15

9:15 AM - 11:15 AM | [A21] RAPID: RAPID ABSTRACT POSTER DISCUSSION  
**IMMUNE MECHANISMS OF SARCOIDOSIS AND OTHER GRANULOMATOUS DISEASES**  
P603 RNA Sequencing of Bronchoalveolar Lavage Cells in Subjects with Sarcoidosis Reveals Gene Expression Patterns Associated with Advanced Scadding Stage and Treatment Effects [Publication Number: A1056]  
**LungMAP Member:** Naftali Kaminski, MD  
**Session Info:** Walter E. Washington Convention Center, Room 206 (South Building, Level 2)  
Abstract Summaries 9:15-9:45  
Poster Viewing/Discussion 9:45-11:15

9:15 AM - 11:15 AM | [A21] RAPID: RAPID ABSTRACT POSTER DISCUSSION  
**IMMUNE MECHANISMS OF SARCOIDOSIS AND OTHER GRANULOMATOUS DISEASES**  
P605 RNA Sequencing of Peripheral Blood Mononuclear Cells Reveals Gene Expression Changes Associated with Disease Progression and Response to Therapy in Sarcoidosis [Publication Number: A1058]  
**LungMAP Member:** Naftali Kaminski, MD  
**Session Info:** Walter E. Washington Convention Center, Room 206 (South Building, Level 2)  
Abstract Summaries 9:15-9:45  
Poster Viewing/Discussion 9:45-11:15

9:15 AM - 11:15 AM | [A21] RAPID: RAPID ABSTRACT POSTER DISCUSSION  
**IMMUNE MECHANISMS OF SARCOIDOSIS AND OTHER GRANULOMATOUS DISEASES**  
P606 A Comparison of Bronchoalveolar Lavage Cells (BAL) and Peripheral Blood Mononuclear Cells (PBMC) Genome Wide Expression Patterns in Sarcoidosis [Publication Number: A1059]  
**LungMAP Member:** Naftali Kaminski, MD  
**Session Info:** Walter E. Washington Convention Center, Room 206 (South Building, Level 2)  
Abstract Summaries 9:15-9:45  
Poster Viewing/Discussion 9:45-11:15

9:15 AM - 11:15 AM | [A21] RAPID: RAPID ABSTRACT POSTER DISCUSSION  
**IMMUNE MECHANISMS OF SARCOIDOSIS AND OTHER GRANULOMATOUS DISEASES**  
P616 Microbiota in Alpha-1 Antitrypsin Deficiency and Sarcoidosis [Publication Number: A1069]  
**LungMAP Member:** Naftali Kaminski, MD  
**Session Info:** Walter E. Washington Convention Center, Room 206 (South Building, Level 2)  
Abstract Summaries 9:15-9:45  
Poster Viewing/Discussion 9:45-11:15

# LungMAP at ATS 2017

## Presentations

### Sunday May 21

9:15 AM - 11:15 AM | [A27] POSTER DISCUSSION SESSION

#### **BRONCHIECTASIS AND LUNG INFECTION**

P508 Airway Gene Expression Correlates of Clinical Severity Following Respiratory Syncytial Virus Infection in Infants [Publication Number: A1197]

**LungMAP Members:** Jeanne Holden-Wiltse, Thomas Mariani, PhD

**Session Info:** Walter E. Washington Convention Center, Room 201 (South Building, Level 2)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

9:15 AM - 4:15 PM | [A60] THEMATIC POSTER SESSION

#### **ADVERSE EFFECTS OF TOBACCO, MARIJUANA, AND RECREATIONAL DRUGS**

P1469 Electronic Cigarette Vapor Regulates Gene Expression in Pediatric Human Lung Epithelial Cells [Publication Number: A2057]

**LungMAP Members:** Ravi Misra, PhD, Gloria Pryhuber, MD, Thomas Mariani, PhD

**Session Info:** Walter E. Washington Convention Center, Area N, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion 11:15-12:00 authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

9:15 AM - 4:15 PM | [A64] THEMATIC POSTER SESSION

#### **BRONCHOPULMONARY DYSPLASIA**

P643 The Role of Matrikine N-Acetyl Proline-Glycine-Proline (Ac-PGP) in Bronchopulmonary Dysplasia [Publication Number: A2174]

**LungMAP Member:** Namasivayam Ambalavanan, MD

**Session Info:** Walter E. Washington Convention Center, Area F, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion 11:15-12:00 authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

9:15 AM - 4:15 PM | [A75] THEMATIC POSTER SESSION

#### **BIG AND BIGGER (DATA): OMICS AND BIOMARKERS OF LUNG DISEASES**

P758 Genome-wide DNA Methylation Analysis at Different Stages of Normal Mouse Lung Development [Publication Number: A7592]

**LungMAP Member:** Namasivayam Ambalavanan, MD

**Session Info:** Walter E. Washington Convention Center, Area G, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion 11:15-12:00 authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

# LungMAP at ATS 2017

## Presentations

### Sunday May 21

12:15 PM - 1:15 PM | [L9] NATIONAL HEART, LUNG, AND BLOOD INSTITUTE, DIVISION OF LUNG DISEASES, NIH

#### **MAPPING LUNG HEALTH AND DISEASE WITH THE MOLECULAR ATLAS OF LUNG DEVELOPMENT**

**Chairing:** S.M. Palmer, MD, MHS, Durham, NC  
S. Lin, PhD, Bethesda, MD

#### **12:15 Transcriptomic Analysis of Pulmonary Cell Lineages Using Single Cell RNAseq in Health and Disease**

J.A. Whitsett, MD, Cincinnati, OH

#### **12:30 Application of Advanced Proteomic, Lipidomic, and Metabolomics Technologies to Challenges in Lung Biology and Medicine**

R. Corley, PhD, Richland, WA

#### **12:45 Systems Biology to Integrate Non-Coding RNAs, DNA Methylation, and Epigenetics During Alveologenesis**

N. Ambalavanan, MD, Birmingham, AL

#### **1:00 Presenting, Visualizing, and Integrating LungMAP Omics Data**

R.F. Clark, PhD, Research Triangle Park, NC

**Session Info:** Walter E. Washington Convention Center, Room 146C (Middle Building, Street Level)

2:15 PM - 4:15 PM | [A87] SCIENTIFIC SYMPOSIUM

#### **ATS MYTHBUSTERS: ONE OME TO RULE THEM ALL: WE WILL FIND A COMMON PRIME MOVER FOR PULMONARY FIBROSIS**

**3:51** Mythbuster 2

**LungMAP Member:** Naftali Kaminski, MD

**Session Info:** Marriott Marquis Washington, Marquis Ballroom 5 (Level M2)

2:15 PM - 4:15 PM | [A93] MINI SYMPOSIUM

#### **ROLE OF ADAPTIVE IMMUNITY IN LUNG DISEASE**

**4:00** Dysregulated Expression of B-Cell Genes is Associated with Idiopathic Pulmonary Fibrosis Severity and Lung Fibrosis Susceptibility in Mice [Publication Number: A2631]

**LungMAP Member:** Naftali Kaminski, MD

**Session Info:** Walter E. Washington Convention Center, Room 204 A-C (South Building, Level 2)

2:15 PM - 4:15 PM | [A98] MINI SYMPOSIUM

#### **SEEING IS BELIEVING: USING NOVEL IMAGING TECHNIQUES TO UNDERSTAND THE LUNG IN HEALTH AND DISEASE**

**CHAIRING: Jason C. Woods, PhD**

**2:30** Hyperpolarized <sup>3</sup>He Gas MRI in Infant Lungs: Investigating Airspace Size [Publication Number: A2663]

**LungMAP Members:** Jason C. Wood, PhD, Gloria Pryhuber, MD

**Session Info:** Marriott Marquis Washington, Independence Ballroom A-D (Level M4)

# LungMAP at ATS 2017

## Sunday May 21

2:15 PM - 4:15 PM | [A102] POSTER DISCUSSION SESSION

### **TRANSPLANTATION: ADVANCES AND CHALLENGES**

P208 Changes in Dyspnea Following Lung Transplantation: A Pooled Cohort Study

[Publication Number: A2693]

**LungMAP Member:** Scott Palmer, MD, MHS

**Session Info:** Walter E. Washington Convention Center, Room 150B (Middle Building, Street Level)

Poster Viewing 2:15-3:00

Discussion 3:00—4:15

2:15 PM - 4:15 PM | [A102] POSTER DISCUSSION SESSION

### **TRANSPLANTATION: ADVANCES AND CHALLENGES**

P217 Outcomes in Lung Transplant Recipients with Pulmonary Fibrosis at High Risk of Death

[Publication Number: A2702]

**LungMAP Member:** Scott Palmer, MD, MHS

**Session Info:** Walter E. Washington Convention Center, Room 150B (Middle Building, Street Level)

Poster Viewing 2:15-3:00

Discussion 3:00—4:15

Presentations

# LungMAP at ATS 2017

## Presentations

### Monday May 22

9:15 AM - 11:15 AM | [B21] RAPiD: RAPID ABSTRACT POSTER DISCUSSION

#### **ALTERATIONS IN MICROBIOME AND VIROME IN LUNG DISEASE**

P415 Microbiota Regulated Exosomal MicroRNA (miRNA) Predicts Bronchopulmonary Dysplasia [Publication Number: A2946]

**LungMAP Member:** Namasivayam Ambalavanan, MD

**Session Info:** Walter E. Washington Convention Center, Room 151 B (Middle Building, Street Level)

Abstract Summaries 9:15-9:45

Poster Viewing/Discussion 9:45-11:15

9:15 AM - 11:15 AM | [B22] RAPiD: RAPID ABSTRACT POSTER DISCUSSION

#### **NEW INSIGHTS IN TYPE 2 INFLAMMATION**

P622 A Cell-Specific MicroRNA-Driven Pathway Controls the Recruitment of Eosinophils in Type 2 Inflammation [Publication Number: A2978]

**LungMAP Member:** Farida Ahangari

**Session Info:** Walter E. Washington Convention Center, Room 206 (South Building, Level 2)

Abstract Summaries 9:15-9:45

Poster Viewing/Discussion 9:45-11:15

9:15 AM - 4:15 PM | [B34] THEMATIC POSTER SESSION

#### **GENETICS AND GENOMICS OF LUNG DISEASE**

P499 The Effect of PiZ Genotype and Augmentation Therapy on Bronchoalveolar Lavage (BAL) and Peripheral Blood Mononuclear Cell (PBMC) Transcriptomes in Alpha-1 Antitrypsin Deficiency [Publication Number: A3229]

**LungMAP Member:** Naftali Kaminski, MD

**Session Info:** Walter E. Washington Convention Center, Area E, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion 11:15-12:00 authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

9:15 AM - 4:15 PM | [B58] THEMATIC POSTER SESSION

#### **OCCUPATIONAL LUNG DISEASE: CASE STUDIES, EPIDEMIOLOGY, AND MECHANISMS**

P17 Diacetyl-Induced IL-8 Production is Mediated by EGFR and ERK 1/2 Activation in Pulmonary Epithelial Cells [Publication Number: A3859]

**LungMAP Member:** Scott Palmer, MD, MHS

**Session Info:** Walter E. Washington Convention Center, Area A, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion 11:15-12:00 authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

9:15 AM - 4:15 PM | [B58] THEMATIC POSTER SESSION

#### **OCCUPATIONAL LUNG DISEASE: CASE STUDIES, EPIDEMIOLOGY, AND MECHANISMS**

P18 DA Vapor Exposure to Pulmonary Epithelium Results in an EGFR Specific Response [Publication Number: A3860]

**LungMAP Member:** Scott Palmer, MD, MHS

**Session Info:** Walter E. Washington Convention Center, Area A, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion 11:15-12:00 authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators



National Heart, Lung,  
and Blood Institute

# LungMAP at ATS 2017

## Presentations

### Monday May 22

9:15 AM - 4:15 PM | [B58] THEMATIC POSTER SESSION

#### **OCCUPATIONAL LUNG DISEASE: CASE STUDIES, EPIDEMIOLOGY, AND MECHANISMS**

P31 EGFR Ligands Increase MEK-Dependent Hyaluronan Synthesis in Naïve Rat Lung Fibroblasts [Publication Number: A3873]

**LungMAP Member:** Scott Palmer, MD, MHS

**Session Info:** Walter E. Washington Convention Center, Area A, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion 11:15-12:00 authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

9:15 AM - 4:15 PM | [B77] THEMATIC POSTER SESSION

#### **ROLE OF EPITHELIAL CELLS IN ACUTE LUNG INJURY**

P247 Type VI Collagen Regulates Pulmonary Epithelial Cell Phenotype and Function [Publication Number: A4346]

**LungMAP Members:** Ravi Misra, PhD, Gloria Pryhuber, MD, Thomas Mariani, PhD

**Session Info:** Walter E. Washington Convention Center, Area C, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion 11:15-12:00 authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

9:15 AM - 4:15 PM | [B77] THEMATIC POSTER SESSION

#### **ROLE OF EPITHELIAL CELLS IN ACUTE LUNG INJURY**

P249 Nitrogen Mustard (Mechlorethamine Hydrochloride) Induces Amphiregulin Shedding and Hyaluronan Synthesis in Human Epithelial Cells [Publication Number: A4348]

**LungMAP Member:** Scott Palmer, MD, MHS

**Session Info:** Walter E. Washington Convention Center, Area C, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion 11:15-12:00 authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

9:15 AM - 4:15 PM | [B80-C] THEMATIC POSTER SESSION

#### **GETTING MODELED: BIOENGINEERING AND COMPUTATIONAL METHODS**

P563 Distal Air Sacs (Alveoli) Form by the Process of Epithelial Extrusion Rather than by Septal "Erection" [Publication Number: A4439]

**LungMAP Members:** David Warburton, MD, Clarence Wigfall, Harvey Pollack, MD, Amelia Shirtz, Scott Fraser, PhD, Rex Moats, PhD

**Session Info:** Walter E. Washington Convention Center, Area E, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion 11:15-12:00 authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators



# LungMAP at ATS 2017

## Presentations

### Monday May 22

2:15 PM - 4:15 PM | [B88] SCIENTIFIC SYMPOSIUM

#### **THE GENE-ENVIRONMENT INTERACTION IN INTERSTITIAL LUNG DISEASE**

**Assemblies on Environmental, Occupational and Population Health; Clinical Problems**

2:40 The Environment, Epigenetics, Non-Coding RNAs and Interstitial Lung Disease

**LungMAP Member:** Naftali Kaminski, MD

**Session Info:** Walter E. Washington Convention Center, Room 143 A-C (Middle Building, Street Level)

2:15 PM—4:15 PM | [B94] MINI SYMPOSIUM

#### **LUNG TRANSPLANTATION: NEW INSIGHTS FOR 2017**

**Chairing:** S.M. Palmer, MD, MHS, Durham, NC

J.P. Singer, MD, MS, San Francisco, CA

M.M. Budev, DO, MPH, Cleveland, OH

3:45 Change in Body Mass Index (BMI) and Mortality Following Lung Transplantation

[Publication Number: A4644]

**LungMAP Member:** Scott Palmer, MD, MHS

**Session Info:** Walter E. Washington Convention Center, Room 145 A-B (Middle Building, Street Level)

2:15 PM—4:15 PM | [B97] MINI SYMPOSIUM

#### **FLIPPING THE SWITCH: DETERMINANTS OF FIBROSIS**

3:00 Single Cell RNA-Sequencing Reveals Distinct Effects of Inhibition of FENDER, a Long Non-Coding RNA Implicated in Fibroblast to Myofibroblast Differentiation [Publication Number: A4664]

**LungMAP Members:** Farida Ahangari, Naftali Kaminski, MD

**Session Info:** Marriott Marquis Washington, Marquis Ballroom 6 (Level M2)

2:15 PM—4:15 PM | [B97] MINI SYMPOSIUM

#### **FLIPPING THE SWITCH: DETERMINANTS OF FIBROSIS**

4:00 Lung Epithelium Overexpressed Noncoding RNA (LEON): A Potential Regulator of Epithelial Gene Expression in Idiopathic Pulmonary Fibrosis [Publication Number: A4668]

**LungMAP Member:** Naftali Kaminski, MD

**Session Info:** Marriott Marquis Washington, Marquis Ballroom 6 (Level M2)



# LungMAP at ATS 2017

## Presentations

### Tuesday May 23

9:15 AM—11:15 AM | [C16] MINI SYMPOSIUM

#### **BRONCHOPULMONARY DYSPLASIA TURNS 50**

9:30 Smooth Muscle Cells Guide the Branching and Patterning of the Developing Human Lung [Publication Number: A4932]

**LungMAP Members:** David Warburton, MD, Denise Al Alam, PhD

**Session Info:** Walter E. Washington Convention Center, Room 202 A (South Building, Level 2)

9:15 AM - 11:15 AM | [C28] RAPiD: RAPID ABSTRACT POSTER DISCUSSION

#### **FROM TARGETS TO THERAPIES IN FIBROSIS**

P924 RNA-Sequencing of Cell Specific Compartments in IPF Formalin-Fixed, Paraffin-Embedded (FFPE) Lung Tissue Using Laser Capture Microdissection Identifies the Gene Expression Patterns of Alveoli and Fibroblast Foci [Publication Number: A5146]

**LungMAP Member:** Naftali Kaminski, MD

**Session Info:** Marriott Marquis Washington, Marquis Ballroom 3-4 (Level M2)  
Abstract Summaries 9:15-9:45

Poster Viewing/Discussion 9:45-11:15

9:15 AM—4:15 PM | [C72] THEMATIC POSTER SESSION

#### **PHYSICAL ACTIVITY AND EXERCISE CAPACITY**

P832 Assessment of Daily Physical Activity in Lung and Heart Transplant Recipients in the First Year Post-Transplant [Publication Number: A6253]

**LungMAP Member:** Scott Palmer, MD, MHS

**Session Info:** Walter E. Washington Convention Center, Area G, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion 11:15-12:00 authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

9:15 AM—4:15 PM | [C75] THEMATIC POSTER SESSION

#### **FIBROSIS: CURRENT AND FUTURE APPROACHES**

P28 Preclinical Studies Reveal Low Phosphate Diet as a Potential Therapy for Pulmonary Alveolar Microlithiasis [Publication Number: A6371]

**LungMAP Member:** Jason C. Woods, PhD

**Session Info:** Walter E. Washington Convention Center, Area A, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion 11:15-12:00 authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

# LungMAP at ATS 2017

## Presentations

### Tuesday May 23

9:15 AM—4:15 PM | [C76] THEMATIC POSTER SESSION

#### **HEAT SHOCK PROTEIN**

P1505 Therapeutic Inhibition of HSP90 Attenuates Fibroblast Activation Involved in Severe Fibrotic Lung Disease [Publication Number: A6379]

**LungMAP Member:** Anil Jegga

**Session Info:** Walter E. Washington Convention Center, Area N, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion 11:15-12:00 authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

9:15 AM—4:15 PM | [C77] THEMATIC POSTER SESSION

#### **ADVANCEMENTS IN THE BIOLOGY OF BPD AND OTHER CONGENITAL PEDIATRIC LUNG DISEASES**

P158 Persistent Respiratory Disease in ELGANS'S in Predicted by Low CD31+CD4+T Cell Frequency [Publication Number: A6388]

**LungMAP Members:** Jeanne Holden-Wiltse, Thomas Mariani, PhD, Gloria Pryhuber, MD

**Session Info:** Walter E. Washington Convention Center, Area B, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion 11:15-12:00 authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

9:15 AM—4:15 PM | [C78] THEMATIC POSTER SESSION

#### **FIBROSIS: MEDIATORS AND MODULATIONS**

P50 Role of Mitogen Activated-Kinase (MAPK)-Phosphatase (MKP)-5 in Pulmonary Fibrosis [Publication Number: A6420]

**LungMAP Member:** Naftali Kaminski, MD

**Session Info:** Walter E. Washington Convention Center, Area A, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion 11:15-12:00 authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

9:15 AM—4:15 PM | [C80] THEMATIC POSTER SESSION

#### **EVERYTHING YOU NEED TO KNOW ABOUT BRONCHOPULMONARY DYSPLASIA, CYSTIC FIBROSIS AND DIFFUSE PARENCHYMAL LUNG DISEASES**

P187 Hyperpolarized  $^{129}\text{Xe}$  Ventilation and Diffusion MRI of Lymphangiomyomatosis [Publication Number: A6469]

**LungMAP Member:** Jason C. Woods, PhD

**Session Info:** Walter E. Washington Convention Center, Area B, Hall B-C (Middle Building, Lower Level)

Viewing: Posters will be on display for entire session.

Discussion 11:15-12:00 authors will be present for individual discussion

12:00-1:00: authors will be present for discussion with assigned facilitators

# LungMAP at ATS 2017

## Presentations

### Tuesday May 23

2:15 PM—4:15 PM | [C82] CLINICAL TOPICS IN PULMONARY MEDICINE

#### **THE CUTTIN EDGE IN LUNG TRANSPLANTATION**

**Chairing:** S.M. Palmer, MD, MHS, Durham, NC

J.A. Belperio, MD, Los Angeles, CA

3:35 New Insights into CLAD Phenotypes, Mechanisms and Treatment

**LungMAP Member:** Scott Palmer, MD, MHS

**Session Info:** Walter E. Washington Convention Center, Ballroom A (South Building, Level 3)

2:15 PM - 4:15 PM | [C94] MINI SYMPOSIUM

#### **PSYCHOSOCIAL IMPACTS ON RESPIRATORY HEALTH AND CRITICAL ILLNESS**

2:30 Coping and Clinical Outcomes Among Lung Transplant Patients [Publication Number: A6731]

**LungMAP Member:** Scott Palmer, MD, MHS

**Session Info:** Walter E. Washington Convention Center, Room 146C (Middle Building, Street Level)

2:15 PM - 4:15 PM | [C94] MINI SYMPOSIUM

#### **PSYCHOSOCIAL IMPACTS ON RESPIRATORY HEALTH AND CRITICAL ILLNESS**

3:15 Depression and Functional Capacity Independently Predict Mortality Following Lung Transplantation Publication Number: A6734]

**LungMAP Member:** Scott Palmer, MD, MHS

**Session Info:** Walter E. Washington Convention Center, Room 146C (Middle Building, Street Level)

2:15 PM - 4:15 PM | [C107] RAPiD: RAPID ABSTRACT POSTER DISCUSSION

#### **MITOCHONDRIA AND METABOLIC INTERACTIONS IN LUNG DISEASE**

P909 Mitochondrial DNA is Released from Lung Fibroblasts in Response to the Fibrotic Lung Microenvironment and Is Predictive of Mortality in Idiopathic Pulmonary Fibrosis [Publication Number: A6917]

**LungMAP Member:** Naftali Kaminski, MD

**Session Info:** Marquis Marriott Washington Ballroom 3-4 (Level M2)

Abstract Summaries 2:15-2:45

Poster Viewing/Discussion 2:45-4:15

2:15 PM - 4:15 PM | [C107] RAPiD: RAPID ABSTRACT POSTER DISCUSSION

#### **MITOCHONDRIA AND METABOLIC INTERACTIONS IN LUNG DISEASE**

P914 Time-Resolved Proteome, Metabolome and Lipidome Profiling of Normal Lung Development [Publication Number: A6922]

**LungMAP Members:** Richard Corley, PhD, Charles Ansong, PhD

**Session Info:** Marquis Marriott Washington Ballroom 3-4 (Level M2)

Abstract Summaries 2:15-2:45

Poster Viewing/Discussion 2:45-4:15

# LungMAP at ATS 2017

## Presentations

### Wednesday May 24

9:15 AM - 11:15 AM | [D26] POSTER DISCUSSION SESSION

#### **LUNG DEVELOPMENT AND BPD**

P507 Lymphocyte Expression Biomarkers of Chronic Lung Diseases Following Preterm Births [Publication Number: A7185]

**LungMAP Members:** Ravi Misra, PhD, Jeanne Holden-Wiltse, Gloria Pryhuber, MD, Thomas Mariani, PhD

**Session Info:** Walter E. Washington Convention Center, Room 201 (South Building, Level 2)

**Chairing:** R.M. Ryan, MD, Charleston, SC

H. Rozycki, MD, Richmond, VA

G.S. Pryhuber, MD, Rochester, NY

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

9:15 AM - 11:15 AM | [D26] POSTER DISCUSSION SESSION

#### **LUNG DEVELOPMENT AND BPD**

P523 Quantitative MRI Measures of Pulmonary Arterial Blood Flow and Morphology in Congenital Diaphragmatic Hernia [Publication Number: A7201]

**LungMAP Member:** Jason C. Woods, PhD

**Session Info:** Walter E. Washington Convention Center, Room 201 (South Building, Level 2)

**Chairing:** R.M. Ryan, MD, Charleston, SC

H. Rozycki, MD, Richmond, VA

G.S. Pryhuber, MD, Rochester, NY

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

9:15 AM - 11:15 AM | [D26] POSTER DISCUSSION SESSION

#### **LUNG DEVELOPMENT AND BPD**

P524 MRI Measures of Pulmonary Arterial Blood Flow and RV Remodeling in BPD [Publication Number: A7202]

**LungMAP Member:** Jason C. Woods, PhD

**Session Info:** Walter E. Washington Convention Center, Room 201 (South Building, Level 2)

**Chairing:** R.M. Ryan, MD, Charleston, SC

H. Rozycki, MD, Richmond, VA

G.S. Pryhuber, MD, Rochester, NY

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

9:15 AM - 11:15 AM | [D28] POSTER DISCUSSION SESSION

#### **THE WEB OF OMICS: DNA, RNA, AND PROTEIN MODIFICATIONS**

P802 Transcriptomic Analysis of Pediatric Human Lung Tissue and Sorted Lung Cell Types [Publication Number: A7222]

**LungMAP Members:** Ravi Misra, PhD, John Ashton, Yina Du, Yan Xu, PhD, Jeffrey Whitsett, MD, Thomas Mariani, PhD, Gloria Pryhuber, MD

**Session Info:** Marriott Marquis Washington, Marquis Ballroom 1-2 (Level M2)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

**Chairing:** B.D. Singer, MD, Chicago, IL

N. Kaminski, MD, New Haven, CT

T.J. Mariani, PhD, Rochester, NY

# LungMAP at ATS 2017

## Presentations

### Wednesday May 24

9:15 AM - 11:15 AM | [D28] POSTER DISCUSSION SESSION

#### **THE WEB OF OMICS: DNA, RNA, AND PROTEIN MODIFICATIONS**

P825 Multi-scale Mass Spectrometry-Based-Omics Analysis of the Developing Lung  
[Publication Number: A7245]

**LungMAP Members:** Jason McDermott, PhD, Richard Corley, PhD, Charles Ansong, PhD

**Session Info:** Marriott Marquis Washington, Marquis Ballroom 1-2 (Level M2)

Poster Viewing 9:15-10:00

Discussion 10:00-11:15

**Chairing:** B.D. Singer, MD, Chicago, IL

N. Kaminski, MD, New Haven, CT

T.J. Mariani, PhD, Rochester, NY

9:15 AM - 11:15 AM | [D30] RAPiD: RAPID ABSTRACT POSTER DISCUSSION

#### **NEW INSIGHTS INTO OBSTRUCTIVE SLEEP APNEA PATHOGENESIS**

P419 Combining Computational Fluid Dynamics and 3D-Cine MRI to Determine the Relationship Between Upper Airway Motion and Breathing Effort in Pediatric Obstructive Sleep Apnea  
[Publication Number: A7699]

**LungMAP Member:** Jason C. Woods, PhD

**Session Info:** Walter E. Washington Convention Center, Room 151 B (Middle Building, Street Level)

Abstract Summaries 9:15-9:45

Poster Viewing/Discussion 9:45-11:15

1:30 PM - 3:30 PM | [D83] CLINICAL TOPICS IN PULMONARY MEDICINE

#### **INNOVATIVE CLINICAL TRIALS IN PULMONARY FIBROSIS AND BEYOND**

**Assemblies on Clinical Problems; Allergy, Immunology and Inflammation; Respiratory Cell and Molecular Biology**

2:45 When a Genomics Expert Tries to Develop a Drug: Lessons from the NHLBI CADET Program

**LungMAP Member:** Naftali Kaminski, MD

**Session Info:** Walter E. Washington Convention Center, Ballroom C (South Building, Level C)

1:30 PM - 3:30 PM | [D92] MINI SYMPOSIUM

#### **BASIC MECHANISMS OF LUNG ALLOGRAFT REJECTION**

1:45 Proteomics of Bronchoalveolar Lavage (BAL) Fluid in Bronchiolitis Obliterans Syndrome (BOS) [Publication Number: A7287]

**LungMAP Member:** Scott Palmer, MD, MHS

**Session Info:** Walter E. Washington Convention Center, Room 202 B (South Building, Level 2)

1:30 PM - 3:30 PM | [D92] MINI SYMPOSIUM

#### **BASIC MECHANISMS OF LUNG ALLOGRAFT REJECTION**

2:15 LOXL-2 Contributes to the Development of Obliterative Bronchiolitis (OB) in Humans [Publication Number: A7289]

**LungMAP Member:** Scott Palmer, MD, MHS

**Session Info:** Walter E. Washington Convention Center, Room 202 B (South Building, Level 2)