Day 1 – June 24, 2016

1:00pm  Registration (Meeting Space Lobby) / Poster Set-up (Centennial I & II)
Meetings will be held in Heritage I

1:15pm  Welcome / Opening Remarks – Victor J. Thannickal, MD (UAB)

1:30 – 2:30pm  Keynote Speaker – James P. Kiley, PhD, Director, Division of Lung Diseases
National Heart, Lung, and Blood Institute, Bethesda, MD
“NHLBI Strategic Vision for Pulmonary Research”

2:30 – 2:45pm  Break

2:45 – 4:45pm  Session 1: 2016 Highlights in Pulmonary Research
Chairs: Pierre Massion, MD (VU); Jaroslaw Zmijewski, PhD (UAB)

15 minute talks (including 3 minutes of discussion)
2:45 – 3:00pm  Bradley Richmond, MD (VU)
Role of Secretory IgA in COPD Pathogenesis

3:00 – 3:15pm  Susan Birket, PhD (UAB)
The CF Rat Exhibits a Mucus Transport Defect and is Susceptible to Pseudomonas Aeruginosa Infection

3:15 – 3:30pm  Wonder Drake, MD (VU)
Investigation of Loss of T Cell Effector Function to Progression of Interstitial Lung Disease

3:30 – 3:45pm  A. Brent Carter, MD (UAB)
Macrophage Mitochondria and Pulmonary Fibrosis

3:45 – 4:00pm  Lorraine Ware, MD (VU)
Long-term Exposure to Ozone and the Risk of ARDS in Critically Ill Patients

4:00 – 4:15pm  Sunad Rangarajan, MD (UAB)
Mitochondrial UCP2 in Age-Related Fibrosis
4:15 – 4:30pm     Dawn Newcomb, PhD (VU)
Role of Sex Hormones in ILC2-mediated Airway Inflammation

4:30 – 4:45pm     Veena Antony, MD (UAB)
COPD and Environmental Exposures to Heavy Metals

4:45 – 5:00pm     Break

5:00 – 6:15pm     Poster Session

6:30pm            Dinner Reception (Heritage I)
Keynote speaker: Timothy Blackwell, MD (VU)
Building a Successful Research Career in the 21st century

Poster Awards to follow Dinner Reception

Adjourn for the evening

Day 2 – June 25, 2016

7:30-8:00 am      Breakfast (Meeting Space Lobby and Heritage I)
Meetings will be held in Heritage I

8:00 – 10:00am    Session 2: Matrix Biology, Fibrosis, and Cancer
Chairs: Lisa Young, MD (VU); Ed Blalock, PhD (UAB)

15 minute talks (including 3 minutes of discussion)
8:00 – 8:15am     Amit Gaggar, MD, PhD (UAB)
Targeting Bioactive Collagen Fragments in COPD

8:15 – 8:30am     Jonathan Kropski, MD (VU)
Telomeres, Centromeres and More: Emerging Understanding of Genetic Risk for Pulmonary Fibrosis

8:30 – 8:45am     Yong Zhou, PhD (UAB)
Matrix Mechanobiology in Lung Fibrosis

8:45 – 9:00am     Sue Majka, PhD (VU)
Lung Mesenchymal Stem Cells Regulate Repair during Fibrosis

9:00 – 9:15am     Philip O’Reilly, MD (UAB)
A Collagen-Derived Inhibitor of Fibrosis

9:15 – 9:30am     Pierre Massion, MD (VU)
Glutamine Metabolism Reprogramming in Lung Cancer Progression

9:30 – 9:45am     Jessy Deshane, PhD (UAB)
Targeting Tryptophan Metabolism to Enhance Anti-Tumor Immunity for Lung Cancer

9:45 – 10:00am    Matthew Semler, MD (VU)
Randomized Trial of Apneic Oxygenation during Endotracheal Intubation of the Critically Ill
10:00 – 10:15am  Break

10:15 – 12:00pm  Session 3: Airways Diseases: Host Defense, Environment and Genetic Predisposition.  
Chairs:  Dawn Newcomb, PhD (VU); Chad Steele, PhD (UAB)

15 minute talks (including 3 minutes of discussion)
10:15 – 10:30am  Mike Noto, MD, PhD (VU)  
*Mutagenesis of Acinetobacter Baumannii Alters Host Defense to Protect Against Gram-negative Pneumonia*

10:30 – 10:45am  Steven M. Rowe, MD (UAB)  
*Abnormal Mucus Clearance as a Defect in Host Defense*

10:45 – 11:00am  Beatriz Leon-Ruiz, PhD (UAB)  
*T Follicular Helper Cells in Allergic Asthma*

11:00 – 11:15am  James West, PhD (VU)  
*Gene Editing in Large Animals*

11:15 – 11:30am  Kevin Harrod, PhD (UAB)  
*Novel Therapeutic Targets for Influenza Pathogenesis*

11:30 – 11:45am  Megha Talati, PhD (VU)  
*Altered Insulin Signaling in the Mutant BMPR2 Cardiomyocytes is Associated with Mitochondrial Dysfunction*

11:45am – 12:00pm  Steven Duncan, MD (UAB)  
*HLA-KIR Epistasis Influences Susceptibility to Chronic Obstructive Pulmonary Disease*

12:00 – 1:15pm  Lunch (Meeting Space Lobby and Heritage I)

1:15 – 3:00pm  Session 4: Mechanisms of Metabolism and Oxidative stress and Implications in Critical Care Medicine  
Chairs:  James West, PhD; Jessy Deshane, PhD (UAB)

15 minute talks (including 3 minutes of discussion)
1:15 – 1:30pm  Lisa Young, MD (VU)  
*Hermansky Pudlak Syndrome Pulmonary Fibrosis: From Pathogenesis Towards Trials*

1:30 – 1:45pm  Karen Bernard, PhD (UAB)  
*Metabolic Reprogramming in Aging and Lung Fibrosis*

1:45 – 2:00pm  Joshua Fessel, MD, PhD (VU)  
*BMP Signaling as a Metabolic Control Mechanism in Pulmonary Vascular Disease*

2:00 – 2:15pm  Trent Tipple, MD (UAB)  
*Thioredoxin Reductase: A Novel Redox Therapeutic Target to Prevent Lung Injury*

2:15 – 2:30pm  Nathan Brummel (VU)  
*Biomarkers of Acute Inflammation as Predictors of Long-term Cognitive Impairment and Disability in Survivors of Critical Illness*
2:30 – 2:45pm Gang Liu, MD, PhD (UAB)
Alveolar Metabolic Dysregulation in Acute Lung Injury

2:45 – 3:00pm Jaroslaw Zmijewski, PhD (UAB)
AMPK Activation Stimulates Recovery of Mitochondrial Biogenesis and Mitophagy in Lungs of Mice with Sepsis

3:00 pm Closing Remarks and Awards: Tim Blackwell, MD & Víctor J. Thannickal, MD.