

**THOMAS L. PETTY**  
**ASPEN LUNG CONFERENCE**  
**64th Annual Meeting**  
**"Bridging the Gap Between Innate and Adaptive Immunity in the Lung"**  
**June 8-11, 2022**

**Tuesday, June 7, 2022 -- Evening**

5:00-7:00 PM                      Evening Registration    Gant Conference Center

**Wednesday, June 8, 2022 – Morning**

8:00-8:20 AM    Welcome/Introduction    William Janssen, M.D., Chair  
Andrew Fontenot, M.D., Co-Chair  
Lisa Maier, M.D., Co-Chair

8:20-8:30 AM    **The Thomas L. Petty Aspen Lung Conference: A Historical Perspective**  
Dennis E. Doherty, M.D., FCCP  
Professor of Medicine, University of Kentucky  
Secretary/Treasurer, National Lung Health Education Program

**Innate Immunity: Mononuclear Phagocytes and Lung Disease: Moderators-William Janssen, M.D./Li Li, Ph.D.**

**8:30-9:05 AM    GILES F. FILLEY LECTURE**  
**"MACROPHAGE HETEROGENEITY IN THE LUNG"**  
**Miriam Merad, M.D., Ph.D.**  
**Professor, Oncological Sciences and Medicine**  
**(Hematology/Oncology)**  
**Icahn School of Medicine at Mount Sinai**  
**Hess Center for Science and Medicine**  
**New York, New York**

**9:05-9:30 AM                      Discussion**

9:30-9:45 AM                      *SINGLE CELL RNA SEQUENCING OF HUMAN LUNG SUB-COMPARTMENTS  
DEFINES SPATIAL HETEROGENEITY OF LEUKOCYTES AND IDENTIFIES  
INTERSTITIAL MACROPHAGE SUBPOPULATIONS ENRICHED BY CHRONIC  
CIGARETTE SMOKE EXPOSURE. Patrick Hume<sup>1,3\*</sup>, Sean Jacobson<sup>2</sup>, Camille Moore<sup>2,4</sup>,  
Kara Mould<sup>1,3</sup>, Peter Henson<sup>1,3</sup>, William Janssen<sup>1,3</sup>, <sup>1</sup>Department of Medicine, Division of  
Pulmonary, Critical Care, and Sleep Medicine; <sup>2</sup>Department of Biomedical Research,  
National Jewish Health, Denver Colorado; <sup>3</sup>Department of Medicine; <sup>4</sup>Department of  
Biostatistics and Informatics, University of Colorado Denver Anschutz Medical Campus,  
Aurora, CO.*

9:45-10:00 AM                      *ALLERGIC ASTHMA RESPONSES ARE DEPENDENT ON INTERSTITIAL  
MACROPHAGE ONTOGENY. Robert Tighe<sup>1\*</sup>, Anastasiya Birukova<sup>1</sup>, Yuriy Malakhau<sup>1</sup>,  
Aaron Vose<sup>1</sup>, Vidya Chandramohan<sup>2</sup>, Jaime Cyphert-Daly<sup>1</sup>, R. Ian Cumming<sup>1</sup>, Alexander  
Misharin<sup>3</sup>, Yoshihiko Kobayashi<sup>4</sup>, Purushothama Tata<sup>4</sup>, Jennifer Ingram<sup>1</sup>, Michael Gunn<sup>1</sup>,  
Loretta Que<sup>1</sup>, Yen-Rei Yu<sup>1,5</sup>, <sup>1</sup>Department of Medicine, Duke University, Durham, NC;  
<sup>2</sup>Department of Surgery, Duke University, Durham, NC; <sup>3</sup>Department of Medicine,  
Northwestern University, Chicago, IL; <sup>4</sup>Department of Cell Biology, Duke University,  
Durham, NC; <sup>5</sup>Department of Medicine, University of Colorado, Denver, CO.*

**10:00-10:30 AM                      ....Coffee Break    MEET THE PROFESSORS (by Registration table)**  
**(Refreshments for conference participants only)**

**Wednesday, June 8, 2022 -- Morning**

**Innate Immunity: Mononuclear Phagocytes and Lung Disease:**  
**Moderators—Claudia Jakubzick, Ph.D./Ciara Shaver, M.D., Ph.D.**

**10:30-11:05 AM                      PARKER B. FRANCIS LECTURESHIP**  
**“DENDRITIC CELLS IN THE LUNG AND**  
**IMPLICATIONS FOR AIRWAYS DISEASE”**  
**Bart N. Lambrecht, M.D., Ph.D.**  
**Professor of Pulmonary Medicine**  
**Department Director, Center for Inflammation Research**  
**University of Ghent, VIB**  
**Ghent, Belgium**

**11:05-11:30 AM      Discussion**

**11:30-11:45 AM      AN IMPORTANT ROLE OF MITOCHONDRIAL H<sub>2</sub>O<sub>2</sub> IN ALLERGEN-INDUCED**  
**TOLERANCE IN EARLY LIFE. *Huijuan Yuan*<sup>1\*</sup>, Jie Chen<sup>1</sup>, Sanmei Hu<sup>1</sup>, Timothy B. Oriss<sup>1</sup>,**  
**Sagar L. Kale<sup>1</sup>, Sudipta Das<sup>1</sup>, Seyed M. Nouraie<sup>1</sup>, Prabir Ray<sup>1,2</sup> and Anuradha Ray<sup>1,2</sup>,**  
**<sup>1</sup>Division of Pulmonary, Allergy, and Critical Care Medicine, <sup>2</sup>Department of Immunology,**  
**University of Pittsburgh School of Medicine, Pittsburgh, PA.**

**11:45-12:00 Noon      A HUMAN MODEL OF ASTHMA EXACERBATION IDENTIFIES PATHOGENIC AIRWAY**  
**IMMUNE CIRCUITS SPECIFIC TO ASTHMA. *Jehan Alladina*<sup>1\*</sup>, N.P. Smith<sup>1</sup>, K.**  
**Manakongtreecheep<sup>1</sup>, K. Slowikowski<sup>1</sup>, H.L. Keen<sup>2</sup>, T. Kooistra<sup>1</sup>, R.A. Rahimi<sup>1</sup>, F.L. Giacona<sup>1</sup>, A.D.**  
**Luster<sup>1</sup>, A.C. Villani<sup>1</sup>, J.L. Cho<sup>2</sup> and B.D. Medoff<sup>d</sup>, <sup>1</sup>Center for Immunology and Inflammatory**  
**Diseases, Massachusetts General Hospital, Boston, MA; <sup>2</sup>Iowa Inflammation Program, University of**  
**Iowa Carver College of Medicine, Iowa City, IA.**

**12:00-1:30 PM                      .....Lunch (lunch not provided by conference)**

## **Wednesday, June 8, 2022 -- Afternoon**

### **Bridging the Gap Between Innate and Adaptive Immune Responses/Part 1:**

**Moderators-Elizabeth Redente, Ph.D./Jennifer Honda, Ph.D.**

#### **1:30-2:05 PM STATE OF THE ART**

**Robert P. Dickson, M.D.**

*University of Michigan Medical School, Ann Arbor, Michigan*

***“How Gut and Lung Microbiota Calibrate Lung Immunity in Health and Disease”***

#### **2:05-2:30 PM Discussion**

2:30-2:45 PM *PROINFLAMMATORY MONOCYTE IMMUNE REPROGRAMMING ENHANCES LPS-INDUCED LUNG INJURY IN SEPSIS SURVIVOR MICE. Scott J. Denstaedt\*, Benjamin H. Singer, Michael W. Newstead, Theodore J. Standiford, Bethany B. Moore, Rachel L. Zemans, Pulmonary and Critical Care Medicine, Michigan Medicine, Ann Arbor, MI.*

2:45-3:00 PM *AN INEFFECTIVE HYPERINFLAMMATORY NEUTROPHILIC IMMUNE RESPONSE INDUCED BY HYPERVIRULENT KLEBSIELLA PNEUMONIAE. Sudipta Das<sup>1\*</sup>, Akruti Patel<sup>1</sup>, Jie Chen<sup>1</sup>, Sanmei Hu<sup>1</sup>, Kathryn Dalton<sup>1</sup>, Michael Gorry<sup>1</sup>, Kong Chen<sup>1</sup>, Janet Lee<sup>1,2</sup>, Anuradha Ray<sup>1,3</sup> and Prabir Ray<sup>1,3</sup>; <sup>1</sup>Division of Pulmonary, Allergy, and Critical Care Medicine, Department of Medicine, University of Pittsburgh School of Medicine, Pittsburgh, PA; <sup>2</sup>Acute Lung Injury Center of Excellence, Department of Medicine, University of Pittsburgh, Pittsburgh, PA; <sup>3</sup>Department of Immunology, University of Pittsburgh School of Medicine, Pittsburgh, PA.*

3:00-3:30 PM **.....Break (Refreshments for conference participants only)**

**Moderators-Robert Tighe, M.D./Kara Mould, Ph.D.**

#### **3:30-4:05 PM**

**MARVIN I. SCHWARZ LECTURE**  
**“DEVELOPMENT AND REGULATION OF**  
**MACROPHAGE RESPONSES”**  
**Christopher K. Glass, M.D., Ph.D.**  
**Professor, Cellular and Molecular Medicine**  
**University of California, San Diego**  
**La Jolla, California**

#### **4:05-4:30 PM Discussion**

4:30-4:45 PM *ADOPTIVE TRANSFER OF IMMUNOMODULATORY MACROPHAGES MODIFIES LOCAL PULMONARY IMMUNITY AND ATTENUATES PULMONARY HYPERTENSION IN A MODEL OF CHRONIC HYPOXIA EXPOSURE. Angeles Fernandez-Gonzalez<sup>1\*</sup>, Amit Mukhia<sup>1</sup>, Janhavi Nadkarni<sup>1</sup>, Kristjan Zhumka<sup>1</sup>, Sally Vitali<sup>2</sup>, Xianlan Liu<sup>1</sup>, S. Alex Mitsialis<sup>1</sup>, Stella Kourembanas<sup>1</sup>, <sup>1</sup>Boston Children's Hospital, Division of Newborn Medicine and <sup>2</sup>Department of Pediatrics, Harvard Medical School, Boston, MA.*

4:45-5:00 PM *A NOVEL TRPV4-NF- $\kappa$ B INHIBITORY INTERACTION IN MACROPHAGES PROTECT THE LUNG FROM INJURY. Y. Liu<sup>1</sup>, Y. Wang<sup>3</sup>, S. Abraham<sup>1</sup>, L.M. Grove<sup>1</sup>, B.D. Southern<sup>1,2</sup>, Amanda Reinhardt<sup>1</sup>, Erica M. Orsini<sup>1</sup>, M. A. Olman<sup>1,2</sup>, **Rachel G. Scheraga<sup>1,2\*</sup>**, Departments of <sup>1</sup>Inflammation and Immunity; <sup>2</sup>Respiratory Institute, and <sup>3</sup>Cancer Biology, Cleveland Clinic, Cleveland, OH.*

**5:00-7:00 PM POSTER VIEWING (Refreshments for conference participants only)**

## **Thursday, June 9, 2022 -- Morning**

### **Bridging the Gap Between Innate and Adaptive Immune Responses/Part 2:**

**Moderators—Irina Petrache, M.D./Julie Bastarache, M.D.**

#### **8:00-8:35 AM STATE OF THE ART**

**G.R. Scott Budinger, M.D.**

*Northwestern University Feinberg School of Medicine, Chicago, Illinois*

**“Innate and Adaptive Immune Responses in COVID-19 Pneumonia”**

#### **8:35-9:00 AM Discussion**

9:00-9:15 AM *SARS-CoV-2-SPECIFIC T CELLS ASSOCIATE WITH REDUCED LUNG FUNCTION AND INFLAMMATION IN PULMONARY POST-ACUTE SEQUALAE OF SARS-CoV-2. Katherine M. Littlefield<sup>1</sup>, Renée O. Watson<sup>1</sup>, Jennifer M. Schneider<sup>1</sup>, Charles P. Neff<sup>d</sup>, Eiko Yamada<sup>1</sup>, Min Zheng<sup>1</sup>, Thomas B. Campbell<sup>1</sup>, Michael T Falt<sup>1</sup> Sarah E. Jolley<sup>1</sup>, Andrew P. Fontenot<sup>1,2</sup>, **Brent E. Palmer<sup>1\*</sup>**, <sup>1</sup>Department of Medicine, University of Colorado AMC, Aurora, CO; <sup>2</sup>Department of Immunology and Microbiology, University of Colorado AMC, Aurora, CO.*

9:15-9:30 AM *IL-13-INDUCED GOBLET CELL METAPLASIA BLOCKS SARS-COV-2 BINDING/ENTRY TO PRIMARY HUMAN AIRWAY EPITHELIA IN VITRO. **Shreya Ghimire\***, Biyun Xue, Kun Li, Chris Wohlford-Lenane, Ryan M. Gannon, Andrew L. Thurman, David K. Meyerholz, Stanley Perlman, Paul B. McCray, Jr., Alejandro A. Pezzulo, Department of Internal Medicine, Carver College of Medicine, The University of Iowa, Iowa City, IA.*

9:30-10:00 AM **.....Coffee Break MEET THE PROFESSORS (by Registration table)**  
(Refreshments for conference participants only)

**Moderators—Lisa Maier, M.D./Katie Hisert, M.D., Ph.D.**

#### **10:00-10:35 AM**

#### **ROGER S. MITCHELL LECTURE**

#### **“GRANULOMA FORMATION IN THE LUNG”**

**Professor Lalita Ramakrishnan, Ph.D.**

*Professor of Medicine, Immunology and Infectious Diseases*

*Molecular Immunity Unit*

*University of Cambridge*

*Cambridge, United Kingdom*

#### **10:35-11:00 AM Discussion**

11:00-11:15 AM *ASPERGILLUS NIDULANS-INDUCED GRANULOMATOUS INFLAMMATION IN A MURINE MODEL OF SARCOIDOSIS. **Shaikh M. Atif<sup>1\*</sup>**, Douglas G. Mack<sup>1</sup>, Allison Martin<sup>1</sup>, Michael Falt<sup>1</sup>, and Andrew Fontenot<sup>1,2</sup>, <sup>1</sup>Department of Medicine, University of Colorado Anschutz Medical Campus, Aurora, CO. <sup>2</sup>Department of Immunology and Microbiology, University of Colorado Anschutz Medical Campus, Aurora, CO.*

11:15-11:30 AM *NTM MUCOSAL-INDUCED IMMUNE RESPONSE ENHANCES THE PROTECTIVE EFFECT OF BCG AGAINST MYCOBACTERIUM TUBERCULOSIS INFECTION. Taru S. Dutt, Burton R. Karger, Amy Fox, Nathan Youssef, Rhythm Dhadhwaj, Sarah Cooper, Brendan Podell, Elisa Rampacci, Andres Obregon-Henao and **Marcela Henao-Tamayo\***, Microbiology, Immunology, and Pathology, Colorado State University, Fort Collins, CO.*

**12:00-3:00 PM Picnic – T Lazy 7 - The Ranch (for conference participants and their family)**

## **Friday, June 10, 2022 -- Morning**

### **Adaptive Immune Responses in Lung Disease:**

**Moderators-Chris Evans, Ph.D./Robert Campbell, Jr., Ph.D., M.S.**

#### **8:00-8:35 AM STATE OF THE ART**

**Frances E. Lund, Ph.D.**

*University of Alabama at Birmingham, Birmingham, Alabama*

**“Role of B-Cells in Adaptive Immunity and Autoimmunity”**

#### **8:35-9:00 AM Discussion**

9:00-9:15 AM *B CELLS ARE REGULATED BY RELM $\alpha$  IN PULMONARY HYPERTENSION. Qing Lin\*, Udeshika Kariyawasam, John Skinner, Roger Johns, Department of Anesthesiology and Critical Care Medicine, Johns Hopkins University School of Medicine, Baltimore, MD.*

9:15-9:30 AM *INTERSTITIAL LUNG DISEASE PATIENTS EXHIBIT AUGMENTED GERMINAL CENTER RESPONSES IN LUNG LYMPH NODES AND INCREASED SERUM REACTIVITIES TO NOVEL AUTOANTIGENS. Young me Yoon<sup>1</sup>, Tania Velez<sup>2</sup>, Vaibhav Upadhyay<sup>3</sup>, Sara Vazquez<sup>3</sup>, Cathryn T Lee<sup>1</sup>, Kelly Blaine<sup>1</sup>, Donna Decker<sup>1</sup>, Robert Guzy<sup>1</sup>, Ayodeji Adegunsoy<sup>1</sup>, Mary Strek<sup>1</sup>, Imre Noth<sup>2</sup>, Mark S Anderson<sup>3</sup>, Joseph DeRisi<sup>3</sup>, Anthony Shum<sup>3</sup>, and Anne I. Sperling<sup>1,2\*</sup>, <sup>1</sup>Dept of Medicine, Section of Pulmonary and Critical Care, University of Chicago, Chicago, IL; <sup>2</sup>Dept of Medicine, Pulmonary and Critical Care Division, Carter Immunology Center, Dept of Microbiology, Immunology, and Cancer, University of Virginia, Charlottesville, VA; <sup>3</sup>Dept of Medicine, University of California, San Francisco, CA.*

9:30-10:00 AM .....Coffee Break (Refreshments for conference participants only)

**Moderators–Tim Lahm, M.D., ATSF/Tara Nordgren, Ph.D.**

#### **10:00-10:35 AM STATE OF THE ART**

**Montserrat C. Anguera, Ph.D.**

*University of Pennsylvania School of Veterinary Medicine, Philadelphia, Pennsylvania*

**“Sex as a Biologic Variable: Role of X Chromosome Inactivation in Immunity”**

#### **10:35-11:00 AM Discussion**

11:00-11:15AM *SEXUALLY DIMORPHIC EXPRESSION OF LUNG MIRNAS IN AN ASTHMA MOUSE MODEL. Nathalie Fuentes<sup>1</sup>, Sarah Commodore<sup>2\*</sup>, Ashley Weaver<sup>1</sup>, Rachel Steckbeck<sup>1</sup>, Lidys Rivera<sup>1</sup>, Marvin Nicoleau<sup>1</sup>, and Patricia Silveyra<sup>2</sup>, <sup>1</sup>Department of Pediatrics, Pennsylvania State University College of Medicine, Hershey, PA; <sup>2</sup>Department of Environmental and Occupational Health, School of Public Health, Indiana University Bloomington, IN.*

11:15-11:30 AM *LUNG EPITHELIAL CELL-DERIVED C3 PROTECTS AGAINST PNEUMONIA-INDUCED LUNG INJURY. A. N. Ozanturk<sup>1</sup>, S. K. Sahu<sup>1</sup>, D. H. Kulkarni<sup>2</sup>, L. Garnica<sup>1</sup>, L. Dannull<sup>1</sup>, L. Ma<sup>1</sup>, J. McPhatter<sup>1</sup>, J. Kunen<sup>1</sup>, X. Wu<sup>3</sup>, S. L. Brody<sup>1</sup>, J. P. Atkinson<sup>3</sup>, Hrishikesh S. Kulkarni<sup>1\*</sup>, <sup>1</sup>Pulmonary and Critical Care Medicine, <sup>2</sup>Gastroenterology, and <sup>3</sup>Rheumatology, Washington University in St Louis, Saint Louis, MO.*

11:30-1:30 PM .....Lunch (lunch not provided by conference)

## **Friday, June 10, 2022 -- Afternoon**

### **Lessons from Cancer: Novel Treatments and Complications of Immunotherapies:** **Moderators-Sunita Sharma, M.D., MPH/Ben Medhoff, M.D.**

#### **1:30-2:05 PM                      THOMAS A. NEFF LECTURE** **“COMPLICATIONS OF IMMUNE MODIFYING THERAPIES”**

**Karthik S. Suresh, M.D.**  
*Assistant Professor of Medicine and Oncology*  
*Johns Hopkins University School of Medicine*  
*Baltimore, Maryland*

#### **2:05-2:30 PM              Discussion**

2:30-2:45 PM      *BRONCHOALVEOLAR FLUID OF PATIENTS WITH CHECKPOINT INHIBITOR PNEUMONITIS DEMONSTRATE ELEVATED LEVELS OF CHEMOKINE LIGAND 18 WITH RELATION TO DISEASE SEVERITY. Mohammad I. Ghanbar<sup>1\*</sup>, Andres Vilabona-Rueda<sup>1</sup>, Ara Wally<sup>1</sup>, Julie Brahmer<sup>2</sup>, Jarushka Naidoo<sup>2</sup>, Jeffrey Thiboutot<sup>1</sup>, Hans J. Lee<sup>1</sup>, Lonny B. Yarmus<sup>1</sup>, David J. Feller-Kopman<sup>1</sup>, Vasan Yegnasubramanian<sup>2</sup>, Franco R. D'Alessio<sup>1</sup>, Karthik Suresh<sup>1</sup>. <sup>1</sup>Division of Pulmonary Critical Care Medicine, and <sup>2</sup>Department of Oncology, Johns Hopkins University School of Medicine, Baltimore, MD.*

2:45-3:00 PM      *CLINICAL RESPONSES TO TREATMENT WITH TEZEPELUMAB AMONG PATIENTS WITH SEVERE, UNCONTROLLED ASTHMA IN THE PHASE 3 NAVIGATOR STUDY. Njira Lugogo,<sup>1</sup> Christopher S Ambrose,<sup>2</sup> Gene Colice,<sup>2</sup> Kamil Kmita,<sup>3</sup> Bill Cook,<sup>2</sup> Sandhia Ponnarambil,<sup>4</sup> Jean-Pierre Llanos-Ackert<sup>5</sup> and Andrew Menzies-Gow<sup>6</sup>, <sup>1</sup>University of Michigan, Ann Arbor, MI; <sup>2</sup>AstraZeneca, Gaithersburg, MD; <sup>3</sup>AstraZeneca, Warsaw, Poland; <sup>4</sup>AstraZeneca, Cambridge, UK; <sup>5</sup>Amgen, Thousand Oaks, CA; <sup>6</sup>Royal Brompton and Harefield Hospitals, London, UK. (encore/presented by Sarah Moyle/AstraZeneca)*

#### **3:00-3:30 PM              .....Break (Refreshments for conference participants only)**

### **Moderators–Ivana Yang, Ph.D./Moumita Ghosh, Ph.D.**

#### **3:30-4:05 PM              STATE OF THE ART** **Matthew F. Krummel, Ph.D.** *University of California San Francisco, San Francisco, California* **“Curing Cancer Through Immunity”**

#### **4:05-4:30 PM              Discussion**

4:30-4:45 PM      *NEWLY DEFINED NEOANTIGEN MODELS DEMONSTRATE THAT NAbS RECOGNIZE AND ELIMINATE A BROAD-SPECTRUM OF TRANSFORMING CELLS. Kavita Rawat<sup>1\*</sup>, Dhvanir Kansara<sup>1</sup>, Shannon Soucy<sup>2</sup>, Fred Kolling<sup>2</sup>, Kiara Diaz<sup>1</sup>, Claudia Jakubzick<sup>1</sup>, <sup>1</sup>Department of Microbiology and Immunology, Dartmouth Geisel School of Medicine, Hanover, NH; <sup>2</sup>Department of Biomedical Data Science, Dartmouth Geisel School of Medicine, Hanover, NH.*

4:45-5:00 PM      *INDUCTION OF TERTIARY LYMPHOID STRUCTURES IN NON-SMALL CELL LUNG CANCER IMPROVES B AND T CELL ANTI-TUMOR IMMUNITY. Hye Mi Kim, Dongyan Liu, Ayana Ruffin, Alexandra McDonough, Caleb Lampenfeld, Sheryl Kunning, Ashwin Somasundaram, Laura Stabile, Tullia C. Bruno\*, University of Pittsburgh, UPMC Hillman Cancer Center, Department of Immunology, Pittsburgh, PA.*

#### **5:00-7:00 PM              POSTER VIEWING (Refreshments for conference participants only)**

**Saturday, June 11, 2022 -- Morning**

**Future of Lung Immunology: Moderators-Gregory Downey, M.D./Patrick Hume, M.D., Ph.D.**

**8:00-8:35 AM**

**REUBEN M. CHERNIACK LECTURE**  
**“IMAGING OF IMMUNE CELLS IN THE LIVING LUNG”**  
**Paul Kubes, Ph.D.**  
**Professor, Department of Physiology and Pharmacology**  
**Snyder Institute for Chronic Diseases**  
**University of Calgary Cumming School of Medicine**  
**Calgary, Alberta, Canada**

**8:35-9:00 AM      Discussion**

9:00-9:15 AM      **ROLE OF DHX58 (LGP2) DURING RESOLUTION OF PNEUMONIA-ARDS IN MICE AND HUMANS.** **Andres Villabona-Rueda<sup>1\*</sup>**, Ye Xiong<sup>1</sup>, Nuala Meyer<sup>2</sup>, Nicola Heller<sup>3</sup>, Rachel Damico<sup>1</sup>, Franco D'Alessio<sup>1</sup>, <sup>1</sup>Department of Medicine, Johns Hopkins University, Baltimore, Maryland; <sup>2</sup>Department of Medicine, Perelman School of Medicine, University of Pennsylvania; <sup>3</sup>Department of Anesthesiology and Critical Care Medicine, Johns Hopkins University, Baltimore, MD.

9:15-9:30 AM      **CRTH2 MEDIATES PRO-FIBROTIC MONOCYTE-DERIVED ALVEOLAR MACROPHAGE DIFFERENTIATION AND PROMOTES LUNG FIBROSIS.** Yueming Cao<sup>1</sup>, Jahnavi Rudrakshala<sup>1</sup>, River Williams<sup>1</sup>, Miles Mundy<sup>1</sup>, Dongqin Yang<sup>1</sup>, Amy Palmisciano<sup>2</sup>, Thomas Walsh<sup>2</sup>, Cesar Delcompare<sup>2</sup>, Tanis Caine<sup>2</sup>, Luca Tomasi<sup>2</sup>, Barry S. Shea<sup>2</sup>, **Yang Zhou<sup>1\*</sup>**, <sup>1</sup>Department of Molecular Microbiology and Immunology, Brown University, Providence, Rhode Island; <sup>2</sup>Division of Pulmonary, Critical Care and Sleep Medicine, Alpert Medical School of Brown University and Rhode Island Hospital, Providence, RI.

**9:30-10:00 AM      .....Coffee Break (Refreshments for conference participants only)**

**Saturday, June 11, 2022 -- Morning**

**Future of Lung Immunology: Moderators-Fernando Holguin, M.D., MPH/Karthik Suresh, M.D.**

**10:00-10:35 AM**

**THOMAS L. PETTY LECTURE  
"NOVEL THERAPIES FOR LUNG DISEASE"**

**Terry J. Fry, M.D.  
Professor of Pediatrics, Hematology and Immunology  
University of Colorado School of Medicine  
Children's Hospital Colorado  
Anschutz Medical Campus  
Aurora, Colorado**

**10:35-11:00 AM Discussion**

**11:00-11:15 AM** *MAINTENANCE DNA METHYLATION STABILIZES INDUCED TREGS. Anthony M. Joudi<sup>1\*</sup>, Kathryn A. Helmin<sup>1</sup>, Luisa Morales-Nebreda<sup>1</sup>, Manuel Torres Acosta<sup>1</sup>, Carla P. Reyes Flores<sup>1</sup>, Samuel E. Weinberg<sup>1</sup>, Benjamin D. Singer<sup>1</sup>, <sup>1</sup>Dept. of Medicine, Northwestern University Feinberg School of Medicine, Chicago, IL.*

**11:15-11:30 AM** *PERIPHERALLY-INDUCED TREGS REGULATE IMMUNE CELL NUMBERS DURING RESOLUTION OF INFLUENZA IN MICE. Jason R. Mock<sup>1,2\*</sup>, Miriya K. Tune<sup>1,2</sup>, and Claire M. Doerschuk<sup>1,2,3</sup>, <sup>1</sup>Division of Pulmonary Disease and Critical Care Medicine, Department of Medicine, <sup>2</sup>Marsico Lung Institute, <sup>3</sup>Center for Airways Disease, University of North Carolina, Chapel Hill, NC.*

**Introduction Conference Summarizer: William Janssen, M.D.**

**11:30-12:30 PM**

**CONFERENCE SUMMARY  
Anuradha Ray, Ph.D.  
Professor of Medicine and Immunology  
UPMC Endowed Chair in Lung Immunology  
Division of Pulmonary, Allergy, and Critical Care Medicine  
University of Pittsburgh School of Medicine  
Pittsburgh, Pennsylvania**

**12:30-1:00 PM Discussion and Adjourn**