



Washington, DC | May 19 – 24

Division of Pulmonary, Allergy, Critical Care, and Sleep Medicine, University of Pittsburgh

May 19, 2023, 8:00 AM - 4:00 PM Walter E. Washington Convention Ctr, Room 145 A-B (Street Level)

Postgraduate Course. PG2. BRONCH DAY 2023: A COMPREHENSIVE, HANDS-ON GUIDE TO BASIC BRONCHOSCOPY, EBUS, AND NAVIGATIONAL BRONCHOSCOPY

8:00 AM - 4:00 PM **Chair: Roy Semaan**, BS, MD. University of Pittsburgh Medical Center, Pittsburgh, PA

1:55 PM - 2:05 PM **Practical Skills Session: Navigational Bronchoscopy: Radial Endobronchial Ultrasound Electromagnetic Navigation Bronchoscopy**
Roy Semaan, BS, MD. University of Pittsburgh Medical Center, Pittsburgh, PA

May 20, 2023, 8:00 AM - 4:00 PM Marriott Marquis Washington, Independence Ballroom, Salon D (Level M4)

Postgraduate Course. PG7. UPDATES ON LUNG TRANSPLANTATION; WHAT PULMONOLOGISTS NEED TO KNOW?

8:00 AM - 4:00 PM **Chair: John F. Mcdyer**, MD. University of Pittsburgh, Pittsburgh, PA

8:00 AM - 4:00 PM **Chair: Chadi A.. Hage**, MD, ATSF. University Of Pittsburgh, Pittsburgh, PA

8:00 AM - 8:05 AM **Introduction**
Chadi A.. Hage, MD, ATSF. University Of Pittsburgh, Pittsburgh, PA

12:45 PM - 1:10 PM **Acute Cellular Rejection: Updates on Diagnosis and Management:** **Mark Eugene Snyder**, MD. University of Pittsburgh, Pittsburgh, PA

May 20, 2023, 8:00 AM - 4:00 PM

Marriott Marquis Washington, Monument (Level M4)

Postgraduate Course. PG12. MOLECULAR TARGETING IN COPD - FROM BASICS THROUGH MULTI-OMIC INTEGRATION TO NOVEL THERAPEUTICS

11:08 AM - 11:28 AM

Mitochondrial Dysfunction in COPD

Corrine R. Kliment, MD, PhD. University of Pittsburgh, Pittsburgh, PA

2:40 PM - 3:10 PM

Workshop 1 - Translational and Multidisciplinary Lung Microengineering

Kambez Hajipouran Benam, PhD. University of Pittsburgh, Pittsburgh, PA

May 21, 2023, 9:00 AM - 11:00 AM

Marriott Marquis Washington, Independence Ballroom Salons A-D (Level M4)

Mini Symposium. A16. INTERROGATING GENOMIC, TRANSCRIPTIONAL, AND EPIGENETIC MECHANISMS IN LUNG FIBROSIS

9:00 AM - 11:00 AM

Moderator: Oliver Eickelberg, MD, ATSF. University of Pittsburgh Medical Center, Pittsburgh, PA

10:12 AM - 10:24 AM

Multiomic Single-nucleus Sequencing Implicates RUNX Family Transcription Factors in Activated Myofibroblast Differentiation in SSc-ILD

E. Valenzi¹, T. Tabib¹, M. Bulik², A. Papazoglou¹, **J. Sembrat**³, R. A. Lafyatis¹;

¹Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²Human Genetics, University of Pittsburgh, Pittsburgh, PA, United States, ³Pulmonary Allergy & Critical Care Medicine, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States.

10:24 AM - 10:36 AM

Resolving Age-dependent Cellular Senescence Programs in Lung Fibrosis Using Longitudinal Single Cell Transcriptomics

M. Lehmann¹, J. Schniering², M. Ansari³, M. Melo-Narváez³, C. Steinchen³, C. Mayr⁴, Y. Chen³, N. Lang³, A. Agami³, I. Angelidis³, S. Zhou³, **M. Koenigshoff**⁵, F. Theis⁶, H. Schiller⁷;

¹Institute for Lung Research, Philipps-Universität Marburg, Marburg, Germany, ²Institute of Lung Health and Immunity, Helmholtz Center Munich, Munich, Germany, ³Comprehensive Pneumology Center (CPC), Institute of Lung Health and Immunity, Helmholtz Zentrum München, Munich, Germany, ⁴Comprehensive Pneumology Center (CPC), Institute of Lung Health and Immunity,

Helmholtz Zentrum München, München, Germany, ⁵Div of Pulmonary, Allergy & Critical Care Med, Univ of Pittsburgh Medical Center, Pittsburgh, PA, United States, ⁶Institute of Computational Biology, Helmholtz Zentrum München,, Munich, Germany, ⁷Comprehensive Pneumology Center (CPC), Institute of Lung Health and Immunity, Helmholtz Zentrum München, Marburg, Germany.

10:36 AM - 10:48 AM

Somatic Mutations of MUC5B Within Lung Tissue in Idiopathic Pulmonary Fibrosis

J. H. Yun¹, M. Khan², K. Krone³, A. J. Ghosh⁴, B. D. Hobbs¹, P. Castaldi¹, C. P. Hersh¹, P. Miller⁵, **F. C. Sciruba**⁶, L. Barwick⁷, A. H. Limper⁸, K. R. Flaherty⁹, G. J. Criner¹⁰, K. K. Brown¹¹, R. A. Wise¹², F. J. Martinez¹³, E. K. Silverman¹, D. L. Demeo¹, M. H. Cho¹, A. Bick²;
¹Brigham and Women's Hospital, Boston, MA, United States, ²Vanderbilt University, Nashville, TN, United States, ³Division of Pulmonary Medicine, Boston Children's Hospital, Boston, MA, United States, ⁴Pulmonary, Critical Care, and Sleep Medicine, SUNY Upstate Medical University, Syracuse, NY, United States, ⁵Massachusetts General Hospital, Boston, MA, United States, ⁶Univ of Pittsburgh Med Ctr, Pittsburgh, PA, United States, ⁷The Emmes Company, Rockville, MD, United States, ⁸Div Pulm and Crit Care, Mayo Clinic, Rochester, MN, United States, ⁹Univ of Michigan, Ann Arbor, MI, United States, ¹⁰Pulm & Crit Care Med, Temple Univ Hosp, Philadelphia, PA, United States, ¹¹Natl Jewish Hlth, Denver, CO, United States, ¹²Pulmonary and Critical Care, Johns Hopkins Univ School of Medicine, Baltimore, MD, United States, ¹³Weill Cornell Medical College, New York, NY, United States.

May 21, 2023, 9:00 AM - 11:00 AM Walter E. Washington Convention Center, Room 204 A-C (Level 2)

Mini Symposium. A17. TELL ME WHAT YOU SEE: NEW STUDIES IN LUNG IMAGING

9:48 AM - 10:00 AM

Computational Fluid Dynamics Analysis Demonstrates Impact of Mucus Plugging on Modifying Airway Dimensions Leading to Increased Airway Resistance and Reduced Lung Deformation in Asthma

J. Choi¹, B. Huang², D. H. Lee¹, I. Lee¹, T. Kim¹, A. Abdolijomoor¹, C. Leung³, C. Lin⁴, E. A. Hoffman⁵, B. Elicker⁶, T. Henry⁷, D. S. Gierada⁸, S. K. Nagle⁹, M. Schiebler¹⁰, J. D. Newell¹¹, J. G. Krings¹², L. C. Denlinger¹³, E. Israel¹⁴, N. N. Jarjour¹⁵, B. D. Levy¹⁴, D. T. Mauger¹⁶, **S. E. Wenzel**¹⁷, P. Woodruff¹⁸, J. V. Fahy¹⁹, M. Castro²⁰, for the NHLBI

Severe Asthma Research Program (SARP);

¹Division of Pulmonary, Critical Care, and Sleep Medicine, Department of Internal Medicine, University of Kansas School of Medicine, Kansas City, KS, United States, ²Pulmonary & Critical Care, UCSF, San Francisco, CA, United States, ³Division of Pulmonary, Critical Care, Allergy and Sleep Medicine, University of California San Francisco, San Francisco, CA, United States, ⁴Mechanical Engineering, The University of Iowa, Iowa City, IA, United States, ⁵Radiology, Univ of Iowa Carver Coll of Med, Iowa City, IA, United States, ⁶Radiology & Biomedical Imaging, University of California, San Francisco, San Francisco, CA, United States, ⁷Radiology and Imaging Sciences, University of California San Francisco, San Francisco, CA, United States, ⁸Mallinckrodt Institute of Radiology, Washington University School of Medicine, St. Louis, MO, United States, ⁹Radiology, University of Wisconsin School of Medicine and Public Health, Madison, WI, United States, ¹⁰University of Wisconsin School of Medicine and Public Health, Madison, WI, United States, ¹¹Radiology, University of Iowa, Iowa City, IA, United States, ¹²Washington University School of Medicine, St. Louis, MO, United States, ¹³Medicine, University of Wisconsin-Madison, Madison, WI, United States, ¹⁴Brigham and Women's Hospital, Boston, MA, United States, ¹⁵University of Wisconsin Hospitals & Clinics, Madison, WI, United States, ¹⁶Public Health Sciences, Penn State University College of Medicine, Hershey, PA, United States, ¹⁷Professor of Med PACCM, Univ of Pittsburgh, Pittsburgh, PA, United States, ¹⁸Medicine, University of California, San Francisco, San Francisco, CA, United States, ¹⁹Pulmonary and Critical Care Medicine, Univ of California At San Francisco, San Francisco, CA, United States, ²⁰Division of Pulmonary Critical Care and Sleep Medicine, University of Kansas School of Medicine, Kansas City, KS, United States.

May 21, 2023, 9:00 AM - 11:00 AM Walter E. Washington Convention Center, Room 202 B (Level 2)

Mini Symposium. A18. BREAKING NEWS IN OSA: NEW APPROACHES AND NEW TRIALS

9:00 AM - 11:00 AM

Moderator

Sanjay R. Patel, MD, MS, ATSF. Univ of Pittsburgh Medical Center, Pittsburgh, PA

May 21, 2023, 9:00 AM - 11:00 AM

Marriott Marquis Washington, Marquis Ballroom, Salons 1-2
(Level M2)

Poster Discussion Session. A21. INFECTION, LUNG INJURY, AND SEPSIS FROM MODELS TO TRANSLATION

9:00 AM - 11:00 AM

102 - Gasdermin-D-Dependent NETs Generation Promotes Cigarette-Smoke Induced Flu Severity

T. W. Kaminski¹, T. Brzoska², **K. M. Robinson³**, T. Nyunoya⁴, P. Sundd²;

¹Pittsburgh Heart, Lung, Blood and Vascular Medicine Institute, University Of Pittsburgh, Pittsburgh, PA, United States, ²Pittsburgh Heart, Lung, Blood and Vascular Medicine Institute, University of Pittsburgh, Pittsburgh, PA, United States, ³Division of Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ⁴Division of Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States.

9:00 AM - 11:00 AM

109 - Novel Oxidized Phospholipid Signatures and Epithelial Cell Cytotoxicity in THC-related Vaping-associated Lung Injury

K. Lockwood¹, W. Bain², Z. Xiong¹, M. Tabary¹, Y. Zhang¹, B. J. McVerry¹, F. A. Shah¹, B. Methe¹, T. F. Olonisakin³, K. Chen¹, L. Fan¹, A. Morris¹, Y. Tyurina⁴, V. Kagan⁴, J. S. Lee¹, T. L. Suber¹;

¹Division of Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²Veterans Affairs Pittsburgh Health System, Pittsburgh, PA, United States, ³Johns Hopkins Hospital, Baltimore, MD, United States, ⁴Department of Environmental and Occupational Health, University of Pittsburgh, Pittsburgh, PA, United States.

9:00 AM - 11:00 AM

118 - Lung Epithelium Releases GDF15 in Response to Pathogen-Mediated Injury to Modulate the Airspace Cytokine Environment

W. Bain¹, B. Fuller¹, H. Bahudhanapati², M. Jiang³, X. An³, Z. Xiong⁴, R. Van Der Geest⁵, M. Tabary⁶, T. L. Suber⁷, Y. Zhang⁸, K. Chen⁹, J. Lee¹⁰, J. K. Alder¹¹, F. A. Shah¹²;

¹PACCM, UPMC, Pittsburgh, PA, United States, ²Medicine, UPMC, Pittsburgh, PA, United States, ³Pulmonary Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ⁴Pulmonary Allergy Critical Care Medicine, Pittsburgh, PA, United States, ⁵Dept. of Medicine, Div. of Pulmonary, Allergy & Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ⁶Pulmonary, allergy, and critical care medicine,

University of Pittsburgh, Pittsburgh, PA, United States, ⁷University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ⁸University of Pittsburgh, Pittsburgh, PA, United States, ⁹UPMC Montefiore 628.5 NW, University of Pittsburgh, Pittsburgh, PA, United States, ¹⁰Div of PACCM, University of Pittsburgh, Pittsburgh, PA, United States, ¹¹Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ¹²Division of Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States.

9:00 AM - 11:00 AM

121 - Disruption of Capsule Gene wcaJ in a Carbapenemase-producing Klebsiella Pneumoniae Bloodstream Clinical Isolate Enhances Complement-mediated Opsonophagocytosis

N. J. Tolman¹, **W. Bain**², C. McElheny³, R. Van Der Geest⁴, S. Gonzalez-Ferrer⁴, X. An⁵, R. Hosuru⁵, **Z. Xiong**⁶, **T. L. Suber**¹, V. Ferreira⁷, D. Van Tyne¹, Y. Doi¹, **J. Lee**⁸;

¹University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ²PACCM, UPMC, Pittsburgh, PA, United States, ³UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA, United States, ⁴Dept. of Medicine, Div. of Pulmonary, Allergy & Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ⁵University of Pittsburgh, Pittsburgh, PA, United States, ⁶Pulmonary Allergy Critical Care Medicine, Pittsburgh, PA, United States, ⁷The University of Toledo, Toledo, OH, United States, ⁸Div of PACCM, Univ of Pittsburgh, Pittsburgh, PA, United States.

May 21, 2023, 9:00 AM - 11:00 AM Walter E. Washington Convention Center, Room 151 A (Street Level)

Poster Discussion Session. A24. COPD PHENOTYPES: LOOKING OUTSIDE THE LUNG

9:00 AM - 11:00 AM

Moderator

Divay Chandra, MD. University of Pittsburgh Medical Center, Pittsburgh, PA

9:00 AM - 11:00 AM

401 - Use of the Wnt/ β -catenin Activator Lithium Is Associated With Less Emphysema in Smokers

K. O. Allbright¹, **D. Chandra**¹, G. Kinney², Y. Li², R. P. Bowler³, **J. Bon**¹, **F. C. Sciruba**¹, S. I. Rennard⁴, **M. Koenigshoff**¹;

¹PACCM, UPMC, Pittsburgh, PA, United States, ²Epidemiology, Colorado University Anschutz Medical Campus, Aurora, CO, United States

States, ³Natl Jewish Health, Denver, CO, United States, ⁴Internal Medicine, UNMC, Omaha, NE, United States.

9:00 AM - 11:00 AM

[403 - Interaction of Diabetes and Lung Diffusing Capacity With Survival in a Tobacco Exposed Cohort](#)

J. C. Hulbert, J. Bon, C. M. Karoleski, Y. Zhang, S. Nouraie, F. C. Scirba;

PACCM, University of Pittsburgh, Pittsburgh, PA, United States.

9:00 AM - 11:00 AM

[404 - Elevated Adiponectin Levels Associate With Hip Bone Mineral Density Loss in Current and Former Smokers](#)

V. Babu¹, S. Nouraie¹, R. H. Zou¹, Y. Zhang¹, J. Pu², F. C. Scirba¹, J. Bon³;

¹Medicine, PACCM, University of Pittsburgh, Pittsburgh, PA, United States, ²Radiology, University of Pittsburgh, Pittsburgh, PA, United States, ³Medicine, PACCM, VA Pittsburgh Healthcare System, Univ of Pittsburgh, Pittsburgh, PA, United States.

9:00 AM - 11:00 AM

[405 - Intermuscular Adipose Tissue Mass Is Associated With Muscle Weakness in Smokers With COPD](#)

R. H. Zou¹, S. Nouraie¹, J. Pu², Y. Zhang¹, F. Scirba¹, D. Forman¹, J. Bon¹;

¹Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²Radiology, University of Pittsburgh, Pittsburgh, PA, United States.

May 21, 2023, 9:00 AM - 11:00 AM

Marriott Marquis Washington, Marquis Ballroom, Salons 3-4 (Level M2)

Poster Discussion Session. A25. 'OMICS AND THE EXPOSOME: HIGH DIMENSIONAL METHODS IN ENVIRONMENTAL LUNG HEALTH RESEARCH

9:00 AM - 11:00 AM

[902 - Polymorphisms in Oxidative Stress-related Genes Modify Environmental Effects on Asthma Exacerbations](#)

S. Xue¹, J. Wang², X. Li³, D. A. Meyers⁴, E. R. Bleecker³, V. E. Ortega⁵, W. J. Calhoun⁶, K. Chung⁷, M. Castro⁸, N. N. Jarjour⁹, S. C. Erzurum¹⁰, E. Israel¹¹, B. D. Levy¹¹, J. V. Fahy¹², W. C. Moore¹³, D. Mauger¹⁴, L. C. Denlinger¹⁵, P. Woodruff¹⁶, **S. E. Wenzel¹⁷;**

¹Environmental and Occupational Health, University of Pittsburgh, Pittsburgh, PA, United States, ²Biostatistics, University of Pittsburgh, Pittsburgh, PA, United States, ³Medicine, University of Arizona, Tucson, AZ, United States, ⁴Genetics, Genomics, and Precision Medicine, University of Arizona, Tucson, AZ, United

States, ⁵Mayo Clinic, Scottsdale, AZ, United States, ⁶Univ of Texas Med Branch, Galveston, TX, United States, ⁷Natl Heart & Lung Inst, London, United Kingdom, ⁸Pulmonary Critical Care & Sleep Med, Univ of Kansas, Kansas City, KS, United States, ⁹Univ of Wisconsin Hosps & Clinics, Madison, WI, United States, ¹⁰Cleveland Clinic Foundation, Cleveland, OH, United States, ¹¹Brigham and Womens Hosp, Boston, MA, United States, ¹²Pulmonary and Critical Care Medicine, Univ of California At San Francisco, San Francisco, CA, United States, ¹³Pulmonary and Critical Care Medicine, Wake Forest Sch of Med, Winston-Salem, NC, United States, ¹⁴Public Health Sciences, Pennsylvania State University, State College, PA, United States, ¹⁵Medicine, University of Wisconsin-Madison, Madison, WI, United States, ¹⁶Medicine, University of California, San Francisco, San Francisco, CA, United States, ¹⁷Professor of Med PACCM, Univ of Pittsburgh, Pittsburgh, PA, United States.

9:00 AM - 11:00 AM

[906 - Exploring Epigenetic Differences in Asthma Patients Living in Western Pennsylvania: What It May Tell Us About the Consequences of Air Pollution and Socioeconomic Stress](#)

T. V. Macedonia¹, W. Tang², Y. K. Sun², B. M. Byrwa-Hill², M. Broerman³, **S. Nouraie³**, **S. E. Wenzel⁴**;

¹Division of Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ²Environmental and Occupational Health, University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA, United States, ³Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ⁴Professor of Med PACCM, Univ of Pittsburgh, Pittsburgh, PA, United States.

May 21, 2023, 9:00 AM - 11:00 AM

Walter E. Washington Convention Center, Room 103 A-B (Street Level)

RAPiD: Rapid Abstract Poster Discussion Session. A26. PRECISION-BASED APPROACHES TO PULMONARY VASCULAR DISEASE

9:00 AM - 11:00 AM

[212 - Stressed Blood Volume Changes in a Cohort of Patients With Preload Insufficiency](#)

S. Fakhri¹, B. Korb², **S. Nouraie¹**, **M. G. Risbano¹**;

¹Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²Santa Clara Valley Hospital, San Jose, CA, United States.

9:00 AM - 11:00 AM

214 - Metabolomic Assessment of Preload Insufficiency Compared to Preload Insufficiency Controls During Rest and Peak Exercise

M. G. Risbano¹, S. Fakhri², B. Korb³, **S. Nouraie**⁴;

¹Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²University of Pittsburgh, Pittsburgh, PA, United States, ³Santa Clara Valley Hospital, San Jose, CA, United States, ⁴Medicine, PACCM, University of Pittsburgh, Pittsburgh, PA, United States.

May 21, 2023, 9:00 AM - 11:00 AM Walter E. Washington Convention Center, Room 201 (Level 2)
Poster Discussion Session. A28. WHAT IS TRENDY IN THE PNEUMONIA WORLD?

9:00 AM - 11:00 AM

605 - Integrative Microbial Cell-free DNA Sequencing and Host-response Profiling in the Lower Respiratory Tract and Systemic Circulation of Patients With Severe Pneumonia

M. K. Hensley¹, H. Yang², V. Nguyen¹, N. Alyousif¹, G. Haidar³, L. Wang⁴, H. Zia⁵, **F. A. Shah**⁶, **W. Bain**⁷, N. Britton⁸, **X. Wang**¹, **S. Qin**⁴, A. Ahmed⁹, T. Blauwkamp⁹, S. bercovici¹⁰, T. Charalampous¹¹, **B. Methe**⁴, P. V. Benos¹², J. O'Grady¹³, **B. J. Mcverry**¹⁴, **A. Morris**¹⁵, **G. Kitsios**¹⁶;

¹Internal Medicine, Division of Pulmonary and Critical Care, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ²Division of Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ³Internal Medicine, Division of Infectious Diseases, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ⁴Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ⁵University of Kentucky, Lexington, KY, United States, ⁶Division of Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ⁷PACCM, UPMC, Pittsburgh, PA, United States, ⁸Pulmonary, Allergy, Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ⁹Karius, Redwood City, CA, United States, ¹⁰Karius, Redwood, CA, United States, ¹¹Kings College, London, United Kingdom, ¹²Epidemiology, University of Florida, Gainesville, FL, United States, ¹³Nanopore, Oxford, United Kingdom, ¹⁴Univ of Pittsburgh, Pittsburgh, PA, United States, ¹⁵Div of Pulm Allergy & Crit Care, Univ of Pittsburgh, Pittsburgh, PA, United States, ¹⁶Pulmonary Allergy and Critical Care Medicine, Pittsburgh, PA, United States.

9:00 AM - 11:00 AM

614 - Outcome of Infection of the Lung by Highly Pathogenic Klebsiella Pneumoniae

A. Patel¹, S. Das¹, K. Chen¹, M. Gorry², S. Hu¹, J. Lee³, A. Ray⁴, P. Ray⁵;¹Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²Pulmonary, Allergy and Critical Care, University of Pittsburgh, Pittsburgh, PA, United States, ³Div of PACCM, University of Pittsburgh, Pittsburgh, PA, United States, ⁴Pulm Allergy Crit Care Med, Univ of Pittsburgh Sch of Med, Pittsburgh, PA, United States, ⁵Univ of Pittsburgh Sch of Med, Pittsburgh, PA, United States.

9:00 AM - 11:00 AM

624 - Pre-exposure to Lipopolysaccharide Protects Mice From Lethal Infection by Pseudomonas Aeruginosa

S. Das¹, T. W. Kaminski², D. Rajasundaram³, S. Hu¹, B. Schlege³, A. Patel¹, S. L. Kale⁴, K. Chen¹, P. Sundd⁵, J. Lee⁶, A. Ray⁷, P. Ray⁸; ¹Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²University of Pittsburgh, Pittsburgh, PA, United States, ³Pediatrics, University of Pittsburgh, Pittsburgh, PA, United States, ⁴Pulmonary Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ⁵Medicine-VMI, University of Pittsburgh, Pittsburgh, PA, United States, ⁶Div of PACCM, Univ of Pittsburgh, Pittsburgh, PA, United States, ⁷Pulm Allergy Crit Care Med, Univ of Pittsburgh Sch of Med, Pittsburgh, PA, United States, ⁸Univ of Pittsburgh Sch of Med, Pittsburgh, PA, United States.

May 21, 2023, 9:00 AM - 4:15 PM

Walter E. Washington Convention Center, Area A, Hall C (Lower Level)

Thematic Poster Session. A32. CASES IN AUTOIMMUNITY, AUTOINFLAMMATION, AND INFECTION

11:30 AM - 1:15 PM

Facilitator

Kristopher Clark, MD. University of Pittsburgh Medical Center, Pittsburgh, PA

May 21, 2023, 9:00 AM - 4:15 PM

Walter E. Washington Convention Center, Area K, Hall C (Lower Level)

Thematic Poster Session. A34. IDENTIFYING AND IMPROVING PALLIATIVE CARE NEEDS ACROSS THE CARE CONTINUUM

11:30 AM - 1:15 PM

P1103 - Stakeholder Perspectives on Family Caregiving After Critical Illness: A Qualitative Content Analysis

A. C. Moale¹, E. M. Motter², P. Eisenhauer³, N. Gandhi⁴, S. Kim³, T. D. Girard⁵, C. F. Reynolds III⁶, N. Leland⁷, J. Chang⁸, L. P. Scheunemann⁹;

¹Division of Pulmonary, Allergy and Critical Care Medicine, Department of Medicine, University of Pittsburgh Medical Center and University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, ²Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ³Medicine, University of Pittsburgh Medical Center and University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, ⁴Medicine, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, ⁵CRISMA Center in the Department of Critical Care Medicine, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, ⁶Psychiatry, University of Pittsburgh Medical Center and University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, ⁷Occupational Therapy, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ⁸Obstetrics, Gynecology and Reproductive Sciences and General Internal Medicine, University of Pittsburgh Medical Center Magee-Womens Hospital, Pittsburgh, PA, United States, ⁹Geriatric Medicine and Gerontology and Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States.

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Walter E. Washington Convention Center, Area D, Hall C (Lower Level)

Thematic Poster Session. A40. AIRWAY CASE REPORTS: HEMOPTYSIS, ANOMALIES, AND MORE

11:30 AM - 1:15 PM

P389 - Tension Pneumothorax and Subcutaneous Emphysema - A Rare Cause of Dysphagia in a Patient With Marfan Syndrome

A. Kainat¹, N. Ain¹, N. Mukhtar¹, **M. Fitzpatrick²**;

¹Internal Medicine, University of Pittsburgh Medical Center, McKeesport, PA, United States, ²Pulm Allergy & Critical Care Medicine, Univ of Pittsburgh, Pittsburgh, PA, United States.

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Walter E. Washington Convention Center, Area D, Hall C (Lower Level)

Thematic Poster Session. A41. EMERGING CLINICAL AND TRANSLATIONAL RESEARCH IN COPD AND ALPHA-1-ANTITRYPSIN

11:30 AM - 1:15 PM

P427 - Impact of One Vs. Two Walks on Responsiveness of the Incremental Shuttle Walk Test to Determine Functional Decline in a Tobacco Exposed Cohort

C. A. Rapoza, V. Babu, S. Nouraie, C. M. Karoleski, D. Chandra, J. Bon, F. C. Scirba;

PACCM, University of Pittsburgh, Pittsburgh, PA, United States.

May 21, 2023, 9:00 AM - 4:15 PM

Walter E. Washington Convention Center, Area H, Hall C (Lower Level)

Thematic Poster Session. A44. COVID AND ITS CONSEQUENCES: PART I

11:30 AM - 1:15 PM

P791 - Examining Heterogeneity of Treatment Effect in Hospitalized Veterans With COVID-19

H. Naiditch¹, V. Talisa², S. Yende³, F. B. Mayr²;

¹Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ³Univ of Pittsburgh, Pittsburgh, PA, United States.

May 21, 2023, 9:00 AM - 4:15 PM

Walter E. Washington Convention Center, Area K, Hall C (Lower Level)

Thematic Poster Session. A46. ECMO, ARDS, AND ACUTE RESPIRATORY FAILURE

11:30 AM - 1:15 PM

P1149 - Physician- and Machine-learning of Radiographic Assessment of Lung Edema (RALE) Scores in Acute Hypoxemic Respiratory Failure

K. Golubykh¹, T. M. Mirza², H. Qurashi³, N. Al-Yousif⁴, S. Komanduri⁵, N. Ramesh⁶, N. Abourizk¹, A. Korzhuk¹, L. Halimat¹, K. J Mitchell⁷, C. M Dietz⁸, M. Hoffelder⁹, R. Joyce¹⁰, G. Fitzgerald¹¹, C. Brandt¹², E. Hughes¹³, **G. Kitsios**¹⁴;

¹Internal Medicine, UPMC Harrisburg, Harrisburg, PA, United States, ²Internal Medicine, University of Pittsburgh Medical Center, Harrisburg, Harrisburg, PA, United States, ³Internal Medicine, UPMC, Pittsburgh, PA, United States, ⁴Critical Care, University of Pittsburgh Medical Center - Mercy, Pittsburgh, PA, United States, ⁵Cardiology, UPMC Harrisburg, Harrisburg, PA, United States, ⁶Pulmonary, Critical Care and Sleep Medicine, UPMC Pinnacle, Harrisburg, PA, United States, ⁷MS Computer Science, Johns Hopkins University, Baltimore, MD, United States, ⁸Carnegie Mellon University, Carnegie Mellon University, Pittsburgh, PA, United States, ⁹MS Electrical Engineering, Notre Dame University, Notre Dam, IL, United States, ¹⁰BS Data Science, Mount Holyoke College, Springfield, MA, United States, ¹¹BS Computer Science, Mount Holyoke College, Harrisburg, PA, United States, ¹²BS Computer Science, Mount Holyoke College, Springfield, MA, United States

States, ¹³MS Electrical and Computer Engineering, Carnegie Mellon University, Pittsburgh, PA, United States, ¹⁴Pulmonary Allergy and Critical Care Medicine, Pittsburgh, PA, United States.

May 21, 2023, 9:00 AM - 4:15 PM

Walter E. Washington Convention Center, Area C, Hall C (Lower Level)

Thematic Poster Session. A47. AUTOIMMUNITY, RHEUMATOLOGY, AND THERMOREGULATION: CASE REPORTS

11:30 AM - 1:15 PM

[P254 - Recurrent Manifestation of Hypothermia, Hyperhidrosis, and Hypotension](#)

A. S. Labar¹, R. Correa Fabiano Filho¹, **T. Nyunoya**²;

¹Department of Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ²Division of Pulmonology and Critical Care Medicine, Department of Medicine, University of Pittsburgh Medical Center and VA Pittsburgh Health System, Pittsburgh, PA, United States.

May 21, 2023, 9:00 AM - 4:15 PM

Walter E. Washington Convention Center, Area E, Hall C (Lower Level)

Thematic Poster Session. A58. VISUALIZING THE FUTURE: IMAGING IN PULMONARY HYPERTENSION

11:30 AM - 1:15 PM

Lead Facilitator

Stephen Y. Chan, MD, PhD. University of Pittsburgh, Pittsburgh, PA

May 21, 2023, 9:00 AM - 4:15 PM

Walter E. Washington Convention Center, Area B, Hall C (Lower Level)

Thematic Poster Session. A59. CLOTS, CLOTS, AND MORE CLOTS: VENOUS THROMBOEMBOLIC DISEASE

11:30 AM - 1:15 PM

[P149 - Hemodynamic and Exercise Limitation of Chronic Pulmonary Embolism Compared to Patients With Resolved Pulmonary Embolism](#)

A. Kelder¹, **B. N. Rivera-Lebron**², **M. G. Risbano**³;

¹Department of Internal Medicine, University of Pittsburgh School of Medicine and UPMC, Pittsburgh, PA, United States, ²Pulmonary, Allergy and Critical Care, University of Pittsburgh School of Medicine and UPMC, Pittsburgh, PA, United States, ³Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh School of Medicine and UPMC, Pittsburgh, PA, United States.

11:30 AM - 1:15 PM

P155 - Transthoracic Echocardiography Can Help to Predict Venous Thromboembolism and Mortality in Sickle Cell Disease

M. Spring¹, J. Newman¹, S. L. Khan², R. C. Lawrence³, B. Scarpato⁴, R. Strykowski⁵, R. T. Cohen⁶, F. Ruberg⁷, **S. Nourai**⁸, E. S. Klings¹;
¹The Pulmonary Center, Boston University School of Medicine, Boston, MA, United States, ²Division of Pulmonary and Critical Care, Johns Hopkins Hospital, Baltimore, MD, United States, ³Pulmonary and Critical Care, Northwestern, Chicago, IL, United States, ⁴Pulmonary and Critical Care, University of Utah Hospital, Salt Lake City, UT, United States, ⁵Pulmonary and Critical Care, University of Chicago, Chicago, IL, United States, ⁶Pediatrics, Boston University School of Medicine, Boston, MA, United States, ⁷Cardiovascular Medicine, Boston University School of Medicine, Boston, MA, United States, ⁸Medicine, PACCM, University of Pittsburgh, Pittsburgh, PA, United States.

May 21, 2023, 9:00 AM - 4:15 PM

Walter E. Washington Convention Center, Area J, Hall C (Lower Level)

Thematic Poster Session. A65. THE ALVEOLAR NICHE IN THE SPOTLIGHT OF LUNG FIBROSIS

11:30 AM - 1:15 PM

P977 - Indole Metabolites as Novel Danger Signals to Lung Epithelial Cells

J. Evankovich¹, J. Villandre¹, F. Tuncer¹, T. Lear², B. Tuncer², E. Thyrum², A. Boudreau², Q. Cao², Y. Liu², B. Chen²;
¹Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²Aging Institute, University of Pittsburgh, Pittsburgh, PA, United States.

May 21, 2023, 9:00 AM - 4:15 PM

Walter E. Washington Convention Center, Area J, Hall C (Lower Level)

Thematic Poster Session. A66. DISSECTING THE MATRIX AND MESENCHYMAL CELLS IN FIBROSIS

11:30 AM - 1:15 PM

P999 - Transglutaminase Type II (TGM2) Secretion Contributes to Changes in Extracellular Matrix (ECM) in Idiopathic Pulmonary Fibrosis (IPF) In Vivo and Lung Fibroblast Ex Vivo

A. Estrada-Bernal¹, **A. Oludayo**¹, **J. Sembrat**², **O. Eickelberg**³;
¹Pulmonary, Allergy and Critical Care Medicine. Department of Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²Pulmonary Allergy & Critical Care Medicine, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, ³Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States.

11:30 AM - 1:15 PM

P1008 - CXCL6 Upregulates COL1A1 and COL1A2 mRNAs in IPF Fibroblasts by a Post-transcriptional Mechanism

H. Bahudhanapati¹, J. Tan¹, **Y. Zhang²**, **S. Nouraei³**, **D. Kass⁴**;
¹Medicine, UPMC, Pittsburgh, PA, United States, ²Univ of Pittsburgh, Pittsburgh, PA, United States, ³Medicine, PACCM, University of Pittsburgh, Pittsburgh, PA, United States, ⁴Division of Pulmonary, Allergy, and Critical Care Medicine University of Pittsburgh Medical Center, University of Pittsburgh, Pittsburgh, PA, United States.

May 21, 2023, 9:00 AM - 4:15 PM

Walter E. Washington Convention Center, Area J, Hall C (Lower Level)

Thematic Poster Session. A67. BIOMARKERS, MEDIATORS, AND TRANSLATIONAL MODELS FOR ILD

11:30 AM - 1:15 PM

Facilitator

Daniel Kass, MD. University of Pittsburgh, Pittsburgh, PA

11:30 AM - 1:15 PM

P1041 - The Therapeutic Gap in Idiopathic Pulmonary Fibrosis: Insights From Single Cell Transcriptional Profiling

N. Mckenna¹, S. A. Ochsner¹, B. J. Moss², J. D. Cala Garcia³, R. E. Cardenas Castillo⁴, F. Poli⁵, S. Poli De Frias⁶, K. Tsoyi⁷, F. Polverino⁸, **M. Koenigshoff⁹**, N. Kaminski¹⁰, C. Coarfa¹, I. O. Rosas⁴;
¹Molecular and Cellular Biology, Baylor College of Medicine, Houston, TX, United States, ²Pulmonary, Critical Care, and Sleep Medicine, Baylor College of Medicine, Houston, TX, United States, ³Pulmonary, Baylor College of Medicine, Houston, TX, United States, ⁴Pulmonary Critical Care and Sleep Medicine, Baylor College of Medicine, Houston, TX, United States, ⁵Internal Medicine, Mount Sinai Medical Center, Miami, FL, United States, ⁶Pulmonary and Critical Care, Brigham and Women's Hospital, Boston, MA, United States, ⁷Baylor College of Medicine, Houston, TX, United States, ⁸Pulmonary and Critical Care, Baylor College of Medicine, Houston, TX, United States, ⁹Div of Pulmonary, Allergy & Critical Care Med, Univ of Pittsburgh Medical Center, Pittsburgh, PA, United States, ¹⁰Department of Medicine, Yale School of Medicine, New Haven, CT, United States

11:30 AM - 1:15 PM

P1048 - Serum Collagen Neopeptides Are Associated With Multi-organ Disease in the Access and GRADS Sarcoidosis Cohorts

C. Ryu¹, J. M. Sand², P. Juhl³, H. Jessen⁴, D. J. Leeming⁵, B. Hu¹, Y. Sun¹, T. Adams⁶, T. Pivarnik¹, S. Yu¹, S. Woo¹, J. McGovern¹, V. Fiorini⁶, G. C. Goobie⁷, **Y. Zhang⁸**, E. L. Herzog⁶;

¹Internal Medicine, Yale School of Medicine, New Haven, CT, United States, ²Biomarkers and Research, Nordic Bioscience, Herlev, Denmark, ³Fibrosis, Pulmonary, Nordic Bioscience A/S, Herlev, Denmark, ⁴Nordic Bioscience, Herlev, Denmark, ⁵Fibrosis, Hepatic and Pulmonary Research, Nordic Bioscience A/S, Herlev, Denmark, ⁶Yale School of Medicine, New Haven, CT, United States, ⁷Human Genetics, University of British Columbia, Vancouver, BC, Canada, ⁸Univ of Pittsburgh, Pittsburgh, PA, United States.

11:30 AM - 1:15 PM

P1068 - CXCL1 Is Highly Expressed in Secretory Cells and Correlates With Poor Outcomes in Patients With Idiopathic Pulmonary Fibrosis

H. Bahudhanapati¹, **D. Kass², Y. Zhang³**, A. Prasse⁴;

¹Medicine, UPMC, Pittsburgh, PA, United States, ²Division of Pulmonary, Allergy, and Critical Care Medicine University of Pittsburgh Medical Center, University of Pittsburgh, Pittsburgh, PA, United States, ³Univ of Pittsburgh, Pittsburgh, PA, United States, ⁴Pulmonology, Medical School, Hannover, Germany.

11:30 AM - 1:15 PM

P1070 - Impact of Enzymatic Digestion on Single Cell Suspension Yield From Human Lungs

A. Bondonese, A. Craig, L. Fan, E. Valenzi, W. Bain, J. Sembrat, K. Chen, M. E. Snyder;

Department of Medicine, University of Pittsburgh, Pittsburgh, PA, United States.

May 21, 2023, 9:00 AM - 4:15 PM

Walter E. Washington Convention Center, Area E, Hall C (Lower Level)

Thematic Poster Session. A69. AN IMAGE'S WORTH: STUDIES IN LUNG IMAGING

11:30 AM - 1:15 PM

P535 - Deep-masker: A Deep Learning Based Fully Automated Tool to Assess Chord Length From Murine Lungs Images

A. S. Leme¹, J. Pu², C. de Lima e Silva³, **T. Nyunoya⁴, M. Koenigshoff⁴, D. Chandra⁵**;

¹Div. of Pulmonary, Allergy & Critical Care Med., University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ²Radiology, University of Pittsburgh, Pittsburgh, PA, United States, ³Div. of Pulmonary, Allergy & Critical Care Med., University of Pittsburgh, Pittsburgh, PA, United States, ⁴Div. of Pulmonary, Allergy & Critical Care Med., Univ. of Pittsburgh Medical Center, Pittsburgh, PA, United States, ⁵Div. Pulmonary, Allergy, and Critical

Care Med., Univ. of Pittsburgh Medical Center, Pittsburgh, PA,
United States.

May 21, 2023, 9:00 AM - 4:15 PM

Walter E. Washington Convention Center, Area B, Hall C (Lower
Level)

**Thematic Poster Session. A70. RELAX ALREADY! MECHANISTIC INSIGHTS INTO AIRWAY SMOOTH
MUSCLE BIOLOGY**

11:30 AM - 1:15 PM

**P222 - Epigenetic Modulation of Airway Smooth Muscle Cell
Function Via Glutamate Metabolism**

Y. Sun¹, B. H. Yeung-Luk², **S. E. Wenzel**³, W. Tang⁴;

¹Environmental and Occupational Health, University of Pittsburgh,
Pittsburgh, PA, United States, ²Environmental Health and
Engineering, Johns Hopkins University, Bel Air, MD, United
States, ³Professor of Med PACCM, Univ of Pittsburgh, Pittsburgh,
PA, United States, ⁴Environmental and Occupational Health,
University of Pittsburgh Graduate School of Public Health,
Pittsburgh, PA, United States.

May 21, 2023, 2:15 PM - 4:15 PM

Walter E. Washington Convention Center, Room 143 A-C (Street
Level)

Mini Symposium. A93. MECHANISTIC INSIGHTS AND NOVEL THERAPEUTICS IN ACUTE LUNG INJURY

2:27 PM - 2:39 PM

**Distinct Plasma and Lower Respiratory Tract Biomarker
Profiles During Acute Respiratory Failure**

**C. Caglayan, B. Zuchelkowski, N. S. Mehdi, S. Qin, Y. Zhang, P.
Ray, A. Ray, J. Lee, A. Morris, B. J. Mcverry, G. Kitsios, W. Bain;**
Division of Pulmonary, Allergy and Critical Care Medicine,
University of Pittsburgh, Pittsburgh, PA, United States.

3:03 PM - 3:15 PM

**Myeloid STAT1 Regulates Injury Response During Hemorrhagic
Alveolar Damage**

A. P. Gheware, M. Tabary, R. Van Der Geest, S. Gonzalez-Ferrer, M.
Kochin, **K. Chen**, Z. Xiong, J. Lee;
Dept. of Medicine, Div. of Pulmonary, Allergy & Critical Care
Medicine, University of Pittsburgh, Pittsburgh, PA, United States.

May 21, 2023, 2:15 PM - 4:15 PM

Walter E. Washington Convention Center, Room 152 A-B (Street
Level)

**Mini Symposium. A94. ADVANCES IN HEALTH SERVICES RESEARCH FOCUSED ON INTERSTITIAL LUNG
DISEASE AND CYSTIC FIBROSIS**

4:03 PM - 4:15 PM

Feasibility Testing of a Web-based Reproductive Decision Support Tool for Cystic Fibrosis

T. M. Kazmerski¹, O. M. Stransky¹, C. E. Wright², **J. M. Pilewski³**, M. B. Talabi⁴, L. S. Callegari⁵, J. C. Chang⁶, K. Z. Abebe⁷, E. Miller¹, A. Deal⁸, R. O'Leary⁸, S. Borrero⁹;

¹Pediatrics, UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA, United States, ²Center for Innovative Research on Gender Health Equity (CONVERGE), Pittsburgh, PA, United States, ³Medicine, University of Pittsburgh Med Ctr, Pittsburgh, PA, United States, ⁴Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ⁵University of Washington, Seattle, WA, United States, ⁶Obstetrics and Gynecology, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ⁷University of Pittsburgh, Pittsburgh, PA, United States, ⁸Carnegie Mellon University, Pittsburgh, PA, United States, ⁹University of Pittsburgh Medical Center, Pittsburgh, PA, United States.

May 21, 2023, 2:15 PM - 4:15 PM

Walter E. Washington Convention Center, Room 146 A-C (Street Level)

Mini Symposium. A95. THIS IS YOUR BRAIN ON (ICU) DRUGS: SEDATION, DELIRIUM, AND LONG-TERM COGNITIVE IMPAIRMENT

2:39 PM - 2:51 PM

Validation of a Predictive Tool for Sedative-associated Delirium During Respiratory Failure

N. Prendergast¹, C. A. Onyemekwu¹, K. M. Potter¹, E. Ely², P. Pandharipande², T. D. Girard³;

¹University of Pittsburgh, Pittsburgh, PA, United States, ²Vanderbilt Univ Med Ctr, Nashville, TN, United States, ³Department of Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States.

2:51 PM - 3:03 PM

Distribution of Data-Driven Delirium Subtypes Within Prior Knowledge-based Delirium Phenotypes

K. Potter¹, J. N. Kennedy¹, **C. A. Onyemekwu², N. Prendergast²**, P. Pandharipande³, E. Ely⁴, C. W. Seymour¹, T. D. Girard¹;

¹Department of Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²Department of Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ³Department of Anesthesiology, Division of Critical Care, Vanderbilt University, Nashville, TN, United States, ⁴Department of Medicine, Division of Allergy, Pulmonary,

and Critical Care Medicine, Vanderbilt University, Nashville, TN, United States.

3:03 PM - 3:15 PM

Novel Sampling Methodology to Identify Metabolites Associated With Delirium in a Sepsis Cohort

C. A. Onyemekwu¹, X. Tan¹, K. Potter¹, **N. Prendergast**¹, S. Mullet¹, S. L. Wendell², N. Toney¹, X. Gu¹, F. Billings³, J. Gamboa³, T. Hulgan³, D. Samuels³, T. Gong¹, T. D. Girard⁴;

¹University of Pittsburgh, Pittsburgh, PA, United States, ²Univ of Pittsburgh, Pittsburgh, PA, United States, ³Vanderbilt University, Nashville, TN, United States, ⁴Department of Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States.

3:27 PM - 3:39 PM

Outcomes Among Data-Driven Delirium Subtypes During Critical Illness

K. Potter¹, J. N. Kennedy¹, **C. A. Onyemekwu**², **N. Prendergast**², P. P. Pandharipande³, E. Ely⁴, C. W. Seymour⁵, T. D. Girard¹;

¹Department of Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²Department of Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ³Department of Anesthesiology, Division of Critical Care, Vanderbilt University, Nashville, TN, United States, ⁴Department of Medicine, Division of Allergy, Pulmonary, and Critical Care Medicine, Vanderbilt University, Nashville, TN, United States, ⁵Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States.

May 21, 2023, 2:15 PM - 4:15 PM

Marriott Marquis Washington, Independence Ballroom Salons A-D (Level M4)

Mini Symposium. A99. CLINICAL TRIALS IN CHRONIC LUNG DISEASE

2:15 PM - 4:15 PM

Moderator

Hilary Strollo, DO, MS. UPMC, Pittsburgh, PA

May 21, 2023, 2:15 PM - 4:15 PM

Walter E. Washington Convention Center, Room 201 (Level 2)

Poster Discussion Session. A101. LINKING BIOLOGY TO THE REAL WORLD IN ASTHMA AND ALLERGIC INFLAMMATION

2:15 PM - 4:15 PM

611 - IL-13 Regulated Airway Epithelial Genes Correlate to Lung Function and Markers of T2 Asthma in Sarpii Participants

J. S. Boomer¹, G. Kim¹, A. Lehman¹, J. V. Fahy², A. Alsup¹, N. N. Jarjour³, S. Christenson⁴, B. Gaston⁵, P. Woodruff⁶, E. R. Bleeker⁷, D. A. Meyers⁸, W. C. Moore⁹, E. Israel¹⁰, B. D. Levy¹⁰, D. Mauger¹¹, S. C.

Erzurum¹², **S. E. Wenzel**¹³, **A. Ray**¹⁴, M. Castro¹⁵;

¹Pulmonary Critical Care Sleep Medicine, University of Kansas Medical Center, St. Louis, MO, United States, ²Pulmonary and Critical Care Medicine, Univ of California At San Francisco, San Francisco, CA, United States, ³Univ of Wisconsin Hosps & Clinics, Madison, WI, United States, ⁴Pulmonary & Critical Care, University of California- San Francisco, San Francisco, CA, United States, ⁵School of Medicine, Wells Center for Pediatric Research, Riley Children's Hospital, Indianapolis, IN, United States, ⁶Medicine, University of California, San Francisco, San Francisco, CA, United States, ⁷Medicine, University of Arizona, Tucson, AZ, United States, ⁸Genetics, Genomics, and Precision Medicine, University of Arizona, Tucson, AZ, United States, ⁹Pulmonary and Critical Care Medicine, Wake Forest Sch of Med, Winston-Salem, NC, United States, ¹⁰Brigham and Womens Hosp, Boston, MA, United States, ¹¹Public Health Sciences, Pennsylvania State University, Hershey, PA, United States, ¹²Cleveland Clinic Foundation, Cleveland, OH, United States, ¹³Professor of Med PACCM, Univ of Pittsburgh, Pittsburgh, PA, United States, ¹⁴Pulm Allergy Crit Care Med, Univ of Pittsburgh Sch of Med, Pittsburgh, PA, United States, ¹⁵Pulmonary Critical Care & Sleep Medicine, Univ of Kansas, Kansas City, KS, United States.

May 21, 2023, 2:15 PM - 4:15 PM

Marriott Marquis Washington, Marquis Ballroom, Salons 1-2 (Level M2)

Poster Discussion Session. A104. NOVEL INSIGHTS ON CANNABIS, TOBACCO, AND E-CIGARETTE USE

2:15 PM - 4:15 PM

110 - Electronic Cigarette Menthol Flavoring Is Associated Worse Lung Function and Increased Inhaled Particle Count

K. Hajipouran Benam¹, **D. Chandra**¹, R. Bowler², R. Bogdanoff¹;

¹University of Pittsburgh, Pittsburgh, PA, United States, ²National Jewish Health, Denver, CO, United States.

2:15 PM - 4:15 PM

115 - Chemical Characterization of Currently Available Vaping Liquids Via Gas Chromatography-mass Spectroscopy (GC-MS)

M. Zhang¹, T. Nee¹, J. Peterson², Y. Di³, J. J. Rose⁴, **S. E. Wenzel**⁵, **D. Chandra**⁶;

¹Allergy Immunology, UPMC, Pittsburgh, PA, United States, ²Environmental and Occupational Health, University of Pittsburgh, Pittsburgh, PA, United States, ³Environmental and Occupational Health, Univ of Pittsburgh, Pittsburgh, PA, United States, ⁴University of Maryland School of Medicine, Baltimore, MD,

United States, ⁵Professor of Med PACCM, Univ of Pittsburgh, Pittsburgh, PA, United States, ⁶Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States.

May 21, 2023, 2:15 PM - 4:15 PM Walter E. Washington Convention Center, Room 103 A-B (Street Level)

RAPiD: Rapid Abstract Poster Discussion Session. A106. MICROBIOME RESEARCH

2:15 PM - 4:15 PM

Moderator

Georgios Kitsios, MD, PhD. Pulmonary Allergy and Critical Care Medicine, Pittsburgh, PA

2:15 PM - 4:15 PM

201 - Nitrate Air Pollution Alters the Diversity and Composition of the Gut Microbiome in a Clinically Diverse Cohort

J. Radder, M. Saul, G. C. Goobie, D. G. Dunlap, G. Kitsios, B. Methe, A. Morris;

Division of Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States.

2:15 PM - 4:15 PM

206 - Characterizing the Oral and Gut Microbiome in a COPD Cohort

D. G. Dunlap¹, J. Radder², K. Li³, A. Patel⁴, A. Fitch⁴, B. Methe¹, A. Morris¹, F. C. Sciruba¹;

¹PACCM, University of Pittsburgh, Pittsburgh, PA, United States, ²Department of Medicine, UPMC, Pittsburgh, PA, United States, ³Center for Medicine & the Microbiome, University of Pittsburgh, Pittsburgh, PA, United States, ⁴Center for Medicine and the Microbiome, University of Pittsburgh, Pittsburgh, PA, United States.

2:15 PM - 4:15 PM

211 - Spatiotemporal Analysis of Oral, Lung and Gut Microbiota and Their Impact on Outcomes of Mechanically Ventilated Patients With Acute Respiratory Failure

G. Kitsios¹, K. Sayed², F. A. Shah¹, W. Bain¹, X. Wang¹, S. Qin¹, H. Gentry¹, A. Patel¹, A. Fitch¹, K. Li¹, B. Methe¹, P. V. Benos², A. Morris¹, B. J. Mcverry¹;

¹Pulmonary Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²Department of Epidemiology, University of Florida, Gainesville, FL, United States.

May 21, 2023, 2:15 PM - 4:15 PM

Walter E. Washington Convention Center, Room 151 A (Street Level)

Poster Discussion Session. A107. AGING AND LUNG DISEASES COMING TO AGE

2:15 PM - 4:15 PM

Moderator

Marta Bueno, PhD. University of Pittsburgh, Pittsburgh, PA

2:15 PM - 4:15 PM

404 - Mitochondrial Response to Telomere Dysfunction-induced Cellular Senescence

D. I. Sullivan¹, F. Bello², A. Hinchie¹, A. Gil Silva¹, L. Giordano³, K. Redding³, L. Edmunds², B. A. Kaufman³, M. J. Jurczak², **J. K. Alder¹**;
¹Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ²Division of Endocrinology and Metabolism, Center for Metabolic and Mitochondrial Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ³Heart, Lung, and Blood Vascular Medicine Institute, University of Pittsburgh, Pittsburgh, PA, United States.

2:15 PM - 4:15 PM

406 - Loss of ANT1 Increases Fibrosis and Senescence in Idiopathic Pulmonary Fibrosis

J. Sui¹, **J. C. Boatz²**, **Q. Hu³**, **Y. Zhang⁴**, **M. Koenigshoff⁵**, **J. Shi¹**, **I. Walsh¹**, **C. R. Kliment⁶**;

¹Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, ²Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ³Department of Medicine, PACCM Division, University of Pittsburgh, Pittsburgh, PA, United States, ⁴Univ of Pittsburgh, Pittsburgh, PA, United States, ⁵Div of Pulmonary, Allergy & Critical Care Med, Univ of Pittsburgh Medical Center, Pittsburgh, PA, United States, ⁶Medicine - Pulmonary, Allergy and Critical Care, University of Pittsburgh, Pittsburgh, PA, United States.

2:15 PM - 4:15 PM

407 - Chronic WNT/ β -catenin Signaling Impairs Mitochondrial Function in Lung Epithelial Cells

Q. Hu¹, M. Ansari², K. M. Redding³, H. Schiller², **M. Bueno¹**, **A. S. Leme¹**, **O. Eickelberg¹**, B. A. Kaufman¹, **M. Lehmann²**, **M. Königshoff¹**;

¹Department of Medicine, PACCM Division, University of Pittsburgh, Pittsburgh, PA, United States, ²Institute of Lung Health and Immunity, Helmholtz Zentrum München, Munich, Germany, ³Department of Medicine, Division of Cardiology,

Vascular Medicine Institute, University of Pittsburgh, Pittsburgh, PA, United States.

2:15 PM - 4:15 PM

413 - XBP1 Is a Key Regulator of the Cellular Stress Response and Senescence in AT2 Progenitor Cells Promoting Resilience to Lung Injury

J. Calyeca¹, J. D. Londino², T. Khaliullin³, S. M. Scott⁴, A. Chambers¹, J. Scott¹, M. Darner¹, **M. Bueno**⁵, D. Alvarez⁶, M. Rojas⁷, A. L. Mora⁸;
¹Pulmonary, Critical Care and Sleep Medicine, DHLRI, Wexner Medical Center, OSU, Columbus, OH, United States, ²Internal Medicine, Ohio State University, Columbus, OH, United States, ³Medicine | IM Pulmonary Critical Care and Sleep, Ohio State University, Columbus, OH, United States, ⁴Internal Medicine, Prisma Health, Columbia, SC, United States, ⁵Division of Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ⁶Medicine, University of Pittsburgh, Pittsburgh, OH, United States, ⁷Division of Pulmonary, Critical Care, & Sleep Medicine, Ohio State University, Columbus, OH, United States, ⁸Internal Medicine, The Ohio State University, Columbus, OH, United States.

2:15 PM - 4:15 PM

419 - Identification and Analysis of Secretome of IPF Senescent Human Lung Fibroblasts Using ER-BioID2 Revealed Profibrotic Proteins Profile Involved Extracellular Matrix Remodeling

N. D. Vanegas¹, J. A. Ovando Ricardez¹, L. Rosas¹, J. Liu², S. D. Stacey³, J. A. Chamucero¹, **J. Sembrat**⁴, **T. Finkel**⁵, **A. L. Mora**¹, **M. Rojas**¹;
¹Division of Pulmonary, Critical Care, & Sleep Medicine, Department of Internal Medicine, The Ohio State University, Columbus, OH, United States, ²Aging Institute, University of Pittsburgh School of Medicine/UPMC, Pittsburgh, PA, United States, ³Human Tissue Biorepository. Comprehensive Transplant Center. Wexner Medical Center., The Ohio State University, Columbus, OH, United States, ⁴Pulmonary Allergy & Critical Care Medicine, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, ⁵Medicine, Division of Cardiology, Aging Institute, University of Pittsburgh, Pittsburgh, PA, United States.

May 21, 2023, 2:15 PM - 4:15 PM

Walter E. Washington Convention Center, Room 144 A-C (Street Level)

RAPiD: Rapid Abstract Poster Discussion Session. A109. MICE TO HUMANS: MECHANISTIC DISCOVERIES IN SLEEP APNEA

2:15 PM - 4:15 PM

Moderator

Priya Vassant. Borker, MD. University of Pittsburgh Medical Center, Pittsburgh, PA

May 21, 2023 6:30 PM - 9:30 PM

UNIVERSITY OF PITTSBURGH PACCM ATS Conference Reception

Bar_Deco

717 6th Street, NW, Washington, District of Columbia 20001

P: 202-774-5867

May 22, 2023, 9:00 AM - 11:00 AM

Walter E. Washington Convention Center, Room 202A (Level 2)

Late Breaking Mini Symposium. B14. COVID SEVERITY, OUTCOMES, AND DISPARITIES: FROM MOLECULE TO COMMUNITY

10:00 AM - 10:12 AM

Association of Smoking History With COVID-19 Infection, Hospitalization and Death in the C4R Study

P. Balte¹, N. Allen², R. Barr¹, R. P. Bowler³, S. A. Cole⁴, D. Couper⁵, M. Cushman⁶, R. Demmer⁷, M. Doyle⁶, M. Elkind¹, V. Howard⁸, A. Kanaya⁹, R. Kaplan¹⁰, J. S. Lee¹¹, V. E. Ortega¹², W. Phipatanakul¹³, W. Post¹⁴, V. Ramachandran¹⁵, D. A. Schwartz¹¹, R. Tracy⁶, **S. E. Wenzel**¹⁶, P. Woodruff⁹, V. Xanthakis¹⁵, E. Oelsner¹;

¹Columbia University Irving Medical Center, New York, NY, United States, ²Northwestern University, Chicago, IL, United States, ³Natl Jewish Health, Denver, CO, United States, ⁴Texas Biomedical Research Institute, Austin, TX, United States, ⁵Biostatistics, Chapel Hill, NC, United States, ⁶University of Vermont, Colchester, VT, United States, ⁷University of Minnesota, Minneapolis, MN, United States, ⁸University of Alabama at Birmingham, Birmingham, AL, United States, ⁹University of California, San Francisco, San Francisco, CA, United States, ¹⁰Albert Einstein College of Medicine, New York, NY, United States, ¹¹Univ of Colorado Denver, Aurora, CO, United States, ¹²Mayo Clinic, Scottsdale, AZ, United States, ¹³Harvard Medical School, Boston Children's Hospital, Boston, MA, United States, ¹⁴Johns Hopkins University, Baltimore, MD, United States, ¹⁵Boston University School of Medicine, Boston, MA, United States, ¹⁶University of Pittsburgh, Pittsburgh, PA, United States.

May 22, 2023, 9:00 AM - 11:00 AM

Walter E. Washington Convention Center, West Salon G-I (Street Level)

Mini Symposium. B15. ASTHMA: HOT OFF THE PRESS FROM THE BENCH TO THE CLINIC

10:12 AM - 10:24 AM

Pathologic CD8+ Effector Memory T Cells Re-expressing CD45RA in Severe Asthma

R. P. Ramonell¹, T. B. Oriss¹, S. L. Kale¹, J. C. McCreary-Partyka¹, K. L. Dalton¹, M. Gauthier¹, S. E. Wenzel², A. Ray²;

¹Department of Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²Department of Environmental and Occupational Health, University of Pittsburgh, Pittsburgh, PA, United States.

10:48 AM - 11:00 AM

Fractional Exhaled Nitric Oxide Is a Stable Longitudinal Biomarker in Severe Asthma and Correlates With Markers of Systemic Inflammation

E. A. Townsend¹, D. T. Mauger², B. R. Phillips³, M. C. Tattersall⁴, S. E. Wenzel⁵, J. G. Zein⁶, V. E. Ortega⁷, M. Castro⁸, B. D. Levy⁹, E. Israel⁹, N. N. Jarjour⁴, S. C. Erzurum¹⁰, J. V. Fahy¹¹, W. C. Moore¹², E. R. Bleecker¹³, D. A. Meyers¹⁴, L. C. Denlinger⁴;

¹Department of Anesthesiology, University of Wisconsin, Madison, WI, United States, ²Department of Statistics, Pennsylvania State University, State College, PA, United States, ³Pennsylvania State University College of Medicine, Hershey, PA, United States, ⁴Department of Medicine, University of Wisconsin, Madison, WI, United States, ⁵Department of Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ⁶Respiratory Institute, Cleveland Clinic, Cleveland, OH, United States, ⁷Department of Medicine, Mayo Clinic, Phoenix, AZ, United States, ⁸Pulmonary Critical Care & Sleep Med, Univ of Kansas, Kansas City, KS, United States, ⁹Brigham and Womens Hosp, Boston, MA, United States, ¹⁰Cleveland Clinic Foundation, Cleveland, OH, United States, ¹¹Pulmonary and Critical Care Medicine, University of California At San Francisco, San Francisco, CA, United States, ¹²Pulmonary and Critical Care Medicine, Wake Forest School of Medicine, Winston-Salem, NC, United States, ¹³Medicine, University of Arizona, Tucson, AZ, United States, ¹⁴Genetics, Genomics, and Precision Medicine, University of Arizona, Tucson, AZ, United States.

May 22, 2023, 9:00 AM - 11:00 AM

Marriott Marquis Washington, Marquis Ballroom, Salons 1-2 (Level M2)

Poster Discussion Session. B22. NEW TREATMENTS AND NOVEL TARGETS FOR COPD AND ALPHA-1

9:00 AM - 11:00 AM

117 - Bronchodilator Responsiveness, Small Airway Disease, and Spirometric Pattern Variability

S. Fortis¹, A. P. Comellas², S. P. Bhatt³, R. Vazquez Guillamet⁴, **F. C. Sciorba**⁵, R. P. Bowler⁶, M. K. Han⁷, E. A. Regan⁸, R. Casaburi⁹, J. D. Crapo¹⁰, E. K. Silverman¹¹, E. S. Wan¹²;

¹Pulmonary and Critical Care, University of Iowa, Iowa City, IA, United States, ²Internal Medicine/Pulmonary, University of Iowa, Iowa City, IA, United States, ³Pulmonary, Allergy and Critical Care Medicine, University of Alabama at Birmingham, Birmingham, AL, United States, ⁴Internal Medicine, University of New Mexico, Albuquerque, NM, United States, ⁵Univ of Pittsburgh Med Ctr, Pittsburgh, PA, United States, ⁶Natl Jewish Health, Denver, CO, United States, ⁷University of Michigan School of Medicine, Ann Arbor, MI, United States, ⁸National Jewish Health, Denver, CO, United States, ⁹The Lundquist Institute for Biomedical Innovation, Torrance, CA, United States, ¹⁰Medicine, National Jewish Health, Denver, CO, United States, ¹¹Brigham and Womens Hosp, Boston, MA, United States, ¹²VA Boston Healthcare System, Boston, MA, United States.

May 22, 2023, 9:00 AM - 11:00 AM Walter E. Washington Convention Ctr, Room 209 A-C (Level 2)
Poster Discussion Session. B23. ADVANCING THE SCIENCE OF ACUTE RESPIRATORY FAILURE

9:00 AM - 11:00 AM

808 - Associations Between Substance Use Disorders and Sedative Exposure During Acute Respiratory Failure

P. Tiberio¹, J. N. Kennedy², **K. Moghbeli**³, **N. Prendergast**⁴, **C. A. Onyemekwu**¹, K. Potter⁵, P. Roy¹, **B. J. Mcverry**⁶, T. D. Girard²;

¹UPMC, Pittsburgh, PA, United States, ²Department of Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ³Pulmonary, Allergy, and Critical Care Medicine, UPMC, Pittsburgh, PA, United States, ⁴Pittsburgh, PA, United States, ⁵University of Pittsburgh, Pittsburgh, PA, United States, ⁶Univ of Pittsburgh, Pittsburgh, PA, United States.

May 22, 2023, 9:00 AM - 11:00 AM Walter E. Washington Convention Center, Room 151 A (Street Level)

Poster Discussion Session. B25. TOP HEMATOLOGY/ONCOLOGY CRITICAL CARE CASE REPORTS

9:00 AM - 11:00 AM

415 - Lepidic Adenocarcinoma Presenting as Acute Hypoxemic Respiratory Failure

P. Jain¹, C. Caglayan¹, M. Marshall², **N. Singh**³;

¹Division of General Internal Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ²Department of Pathology, University of Pittsburgh Medical Center, Pittsburgh, PA,

United States, ³Division of Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States.

May 22, 2023, 9:00 AM - 4:15 PM

Walter E. Washington Convention Center, Area G, Hall C (Lower Level)

Thematic Poster Session. B31. ASTHMA: FROM MICE TO MEN, AND BACK AGAIN

11:30 AM - 1:15 PM

P680 - Role of Type 2 Immunity in the Context of IFN- γ ^{High}/Type 1^{High} Severe Asthma

S. L. Kale, M. Gauthier, T. B. Oriss, S. Das, H. Yuan, S. Hu, K. L. Dalton, P. Ray, A. Ray;

Pulm Allergy Crit Care Med, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States.

11:30 AM - 1:15 PM

P689 - Increased Platelet Counts Are Associated With Female Sex and Asthma Severity

N. Solanki¹, A. Attaway¹, E. R. Bleecker², K. Cahill³, M. Castro⁴, S. A. Comhair⁵, L. C. Denlinger⁶, S. C. Erzurum⁷, J. V. Fahy⁸, B. Gaston⁹, G. A. Hawkins¹⁰, S. Hazen⁵, E. Israel¹¹, N. N. Jarjour¹², B. D. Levy¹¹, X. Li², D. Mauger¹³, D. A. Meyers¹⁴, W. C. Moore¹⁵, D. C. Newcomb¹⁶, V. E. Ortega¹⁷, M. C. Peters¹⁸, E. A. Townsend¹⁹, **S. E. Wenzel²⁰**, J. G. Zein⁷;
¹Department of Medicine, Cleveland Clinic Foundation, Cleveland, OH, United States, ²Department of Medicine, University of Arizona, Tucson, AZ, United States, ³Department of Medicine, Vanderbilt University Medical Center, Nashville, TN, United States, ⁴Department of Medicine, University of Kansas, Kansas City, KS, United States, ⁵Lerner Research Institute, Cleveland Clinic Foundation, Cleveland, OH, United States, ⁶Department of Medicine, University of Wisconsin-Madison, Madison, WI, United States, ⁷Department of Medicine, Lerner Research Institute, Cleveland Clinic Foundation, Cleveland, OH, United States, ⁸Department of Medicine, University of California At San Francisco, San Francisco, CA, United States, ⁹Department of Pediatrics, Indiana University, Indianapolis, IN, United States, ¹⁰Department of Medicine, Wake Forest University, Winston Salem, NC, United States, ¹¹Department of Medicine, Brigham and Womens Hospital, Boston, MA, United States, ¹²Department of Medicine, University of Wisconsin, Madison, WI, United States, ¹³Department of Statistics, Penn-State University College of Medicine, Hershey, PA, United States, ¹⁴Genetics, Genomics, and Precision Medicine, University of Arizona, Tucson, AZ, United

States, ¹⁵Department of Medicine, Wake Forest University, Winston-Salem, NC, United States, ¹⁶Department of Medicine, Vanderbilt University, Nashville, TN, United States, ¹⁷Department of Medicine, Mayo Clinic, Scottsdale, AZ, United States, ¹⁸Department of Medicine, University of California San Francisco, San Francisco, CA, United States, ¹⁹Department of Anesthesiology, University of Wisconsin, Madison, WI, United States, ²⁰Department of Medicine, Univ of Pittsburgh, Pittsburgh, PA, United States.

11:30 AM - 1:15 PM

P720 - Mitochondrial Hydrogen Peroxide Is Required for Preventing Allergic Airway Disease in Early Life

H. Yuan, S. Hu, T. B. Oriss, S. L. Kale, S. Das, S. M. Nouraie, K. Chen, P. Ray, A. Ray;

Division of Pulmonary, Allergy, and Critical Care Medicine, Department of Medicine, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States.

May 22, 2023, 9:00 AM - 4:15 PM

Walter E. Washington Convention Center, Area K, Hall C (Lower Level)

Thematic Poster Session. B35. IMPROVING MEDICAL EDUCATION IN PULMONARY, CRITICAL CARE, AND SLEEP

11:30 AM - 1:15 PM

P1171 - Pulmonary Fellows Need More Sleep: A Sleep Disordered Breathing Curriculum for Pulmonary Fellows

B. Stone¹, J. L. Newitt¹, M. Acho², M. El Ali¹, P. J. Strollo¹, S. Maximous¹;

¹Division of Pulmonary Allergy and Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ²Division of Pulmonary and Critical Care Medicine, University of Michigan, Ann Arbor, MI, United States.

May 22, 2023, 9:00 AM - 4:15 PM

Walter E. Washington Convention Center, Area E, Hall C (Lower Level)

Thematic Poster Session. B39. ADVANCES IN LUNG TRANSPLANTATION

11:30 AM - 1:15 PM

P584 - Increased Airway Dehiscence in Idiopathic Pulmonary Fibrosis Lung Transplant Recipients

R. Koshy¹, E. Chan¹, S. Hannan¹, C. Iasella², R. Sutton¹, R. Burke¹, I. Popescu¹, C. A. Hage¹, J. K. Alder¹, P. Sanchez¹, J. F. Mcdyer¹;

¹Pulmonary, Allergy, and Critical Care, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, ²School of

Pharmacy, University of Pittsburgh School of Pharmacy, Pittsburgh, PA, United States.

May 22, 2023, 9:00 AM - 4:15 PM Walter E. Washington Convention Center, Area B, Hall C (Lower Level)

Thematic Poster Session. B60. LIFE MOVES FAST! LATE BREAKERS IN PULMONARY HYPERTENSION

11:30 AM - 1:15 PM

Facilitator

Michael G. Risbano, MD, MA. University of Pittsburgh, Pittsburgh, PA

May 22, 2023, 9:00 AM - 4:15 PM Walter E. Washington Convention Center, Area L, Hall C (Lower Level)

Thematic Poster Session. B65. IMMUNE AND ENDOTHELIAL CELLS HIT BACK AT LUNG REPAIR

11:30 AM - 1:15 PM

P1251 - Growth and Differentiation Factor-15 (GDF15) Is Associated With Vascular Remodeling in Pulmonary Fibrotic Disease

K. Raffensperger¹, P. Suresh², M. Bueno², A. Estrada-Bernal², B. Philips³, S. Nourai², D. Kass⁴, Y. Zhang⁵, J. K. Alder², A. Straub³, O. Eickelberg⁶;

¹Pulmonary, Allergy, and Critical Care Medicine, UPMC, Pittsburgh, PA, United States, ²Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ³Vascular Medicine Institute, University of Pittsburgh, Pittsburgh, PA, United States, ⁴Division of Pulmonary, Allergy, and Critical Care Medicine University of Pittsburgh Medical Center, University of Pittsburgh, Pittsburgh, PA, United States, ⁵University of Pittsburgh, Pittsburgh, PA, United States, ⁶Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States.

May 22, 2023, 9:00 AM - 4:15 PM Walter E. Washington Convention Center, Area D, Hall C (Lower Level)

Thematic Poster Session. B73. TRULY SYMPTOMATIC OR JUST MIMICKING? LUNG CANCER CASES

11:30 AM - 1:15 PM

P439 - Invasive Mucinous Adenocarcinoma Manifesting as a Non-resolving Pneumonia

A. Kainat¹, M. Nawal¹, N. Ain¹, M. Fitzpatrick²;

¹Internal Medicine, University of Pittsburgh Medical Center, McKeesport, McKeesport, PA, United States, ²Pulm Allergy & Critical Care Medicine, Univ of Pittsburgh, Pittsburgh, PA, United States.

May 22, 2023, 10:15 AM - 11:15 AM Marriott Marquis Washington, Judiciary Square (Level M3)
Meet the Experts. MTE19. DECENTRALIZED CLINICAL TRIALS IN INTERSTITIAL LUNG DISEASE

10:15 AM - 11:15 AM

Faculty

Daniel Isaiah. Sullivan, MD. UPMC, Pittsburgh, PA

May 22, 2023, 12:00 PM - 1:00 PM Marriott Marquis Washington, Judiciary Square (Level M3)
Meet the Experts. MTE27. SMART THERAPY AND ALLERGIC IMMUNOTHERAPY IN NEW ASTHMA GUIDELINES: PROS AND CONS

12:00 PM - 1:00 PM

Faculty

Richard Paul. Ramonell, MD. University of Pittsburgh, Pittsburgh, PA

May 22, 2023, 2:15 PM - 3:45 PM Walter E. Washington Convention Ctr, Room 207 A-B (Level 2)
Scientific Symposium. B89. TRANSCRIPTOMIC PROFILING OF PULMONARY VASCULAR LESIONS UNRAVEL MECHANISMS OF PULMONARY ARTERIAL HYPERTENSION

2:15 PM - 3:45 PM

Chair

Mark W. Geraci, MD. University of Pittsburgh, Pittsburgh, PA

May 22, 2023, 2:15 PM - 4:15 PM Walter E. Washington Convention Center, Room 152 A-B (Street Level)

Mini Symposium. B97. RISKY BUSINESS: TREATMENTS AND CLINICAL TARGETS IN PULMONARY HYPERTENSION

2:39 PM - 2:51 PM

Post-acute Sequelae of SARS-CoV-2 Infection Patients Have Metabolic Reprogramming and Reduced Mitochondrial Function at Peak Exercise

M. G. Risbano¹, C. R. Kliment², D. G. Dunlap³, C. Koch⁴, K. Yoney¹, S. Nouraie⁵, F. C. Scirba⁶, A. Morris⁷;

¹Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²Medicine - Pulmonary, Allergy and Critical Care, University of Pittsburgh, Pittsburgh, PA, United States, ³PACCM, University of Pittsburgh, Pittsburgh, PA, United States, ⁴Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ⁵Medicine, PACCM, University of Pittsburgh, Pittsburgh, PA, United States, ⁶Univ of Pittsburgh Med Ctr, Pittsburgh, PA, United States, ⁷Div of Pulm Allergy & Crit Care, Univ of Pittsburgh, Pittsburgh, PA, United States.

May 22, 2023, 2:15 PM - 4:15 PM

Walter E. Washington Convention Center, Room 143 A-C (Street Level)

Mini Symposium. B99. ALL THAT WHEEZES: TRANSLATIONAL STUDIES IN ASTHMA

2:51 PM - 3:03 PM

Large Airway Mucus Plugs in Severe Asthma Are Spatially Associated With Air Trapping and Correlate With Airflow Obstruction in Proportion to Their Effect on Airway Resistance

B. Huang¹, J. Choi², T. Henry³, B. Elicker⁴, K. Kallianos⁴, L. Hahn⁵, M. Tang⁶, N. R. Bhakta⁷, S. B. Fain⁸, E. A. Hoffman⁹, D. Mauger¹⁰, E. Israel¹¹, B. D. Levy¹¹, N. N. Jarjour¹², **S. E. Wenzel**¹³, M. Castro¹⁴, P. Woodruff¹⁵, J. V. Fahy¹⁶, NHLBI Severe Asthma Research Program; ¹Pulmonary & Critical Care Medicine, UCSF, San Francisco, CA, United States, ²Internal Medicine, University of Kansas School of Medicine, Kansas City, KS, United States, ³Radiology and Imaging Sciences, Duke University, Durham, NC, United States, ⁴Radiology & Biomedical Imaging, University of California, San Francisco, San Francisco, CA, United States, ⁵Radiology, University of California, San Diego, San Diego, CA, United States, ⁶Pulmonary Critical Care, Allergy and Sleep Medicine, University of California San Francisco, San Francisco, CA, United States, ⁷UCSF, San Francisco, CA, United States, ⁸Radiology, Univ of Iowa, Iowa City, IA, United States, ⁹Radiology, Univ of Iowa Carver Coll of Med, Iowa City, IA, United States, ¹⁰Department of Public Health Sciences, Penn State University, State College, PA, United States, ¹¹Brigham and Womens Hosp, Boston, MA, United States, ¹²Univ of Wisconsin Hosps & Clinics, Madison, WI, United States, ¹³Professor of Med PACCM, Univ of Pittsburgh, Pittsburgh, PA, United States, ¹⁴Pulmonary Critical Care & Sleep Medicine, Univ of Kansas, Kansas City, KS, United States, ¹⁵Medicine, University of California, San Francisco, San Francisco, CA, United States, ¹⁶Pulmonary and Critical Care Medicine, Univ of California At San Francisco, San Francisco, CA, United States.

3:15 PM - 3:27 PM

Widespread Air Trapping in Asthma Is Associated With Airway Eosinophilia and Altered Airway Behavior During Expiration

C. Leung¹, B. Huang², M. Castro³, S. B. Fain⁴, E. A. Hoffman⁵, J. Choi⁶, D. Mauger⁷, L. C. Denlinger⁸, N. N. Jarjour⁹, E. Israel¹⁰, B. D. Levy¹⁰, **S. E. Wenzel**¹¹, J. Schirm¹², P. Woodruff¹³, M. Tang¹⁴, J. V. Fahy¹⁵, NHLBI Severe Asthma Research Program (SARP);

¹Division of Pulmonary, Critical Care, Allergy and Sleep Medicine, University of California San Francisco, San Francisco, CA, United

States, ²Pulmonary & Critical Care, UCSF, San Francisco, CA, United States, ³Pulmonary Critical Care & Sleep Med, Univ of Kansas, Kansas City, KS, United States, ⁴Radiology, Univ of Iowa, Iowa City, IA, United States, ⁵Radiology, Univ of Iowa Carver Coll of Med, Iowa City, IA, United States, ⁶Internal Medicine, University of Kansas School of Medicine, Kansas City, KS, United States, ⁷Division of Biostatistics and Bioinformatics, Penn State College of Medicine, The Pennsylvania State University, San Francisco, PA, United States, ⁸Medicine, University of Wisconsin-Madison, Madison, WI, United States, ⁹Univ of Wisconsin Hosps & Clinics, Madison, WI, United States, ¹⁰Brigham and Womens Hosp, Boston, MA, United States, ¹¹Professor of Med PACCM, Univ of Pittsburgh, Pittsburgh, PA, United States, ¹²VIDA Diagnostics Inc, Coralville, IA, United States, ¹³Medicine, University of California, San Francisco, San Francisco, CA, United States, ¹⁴Pulmonary Critical Care, Allergy and Sleep Medicine, University of California San Francisco, San Francisco, CA, United States, ¹⁵Pulmonary and Critical Care Medicine, Univ of California At San Francisco, San Francisco, CA, United States.

May 22, 2023, 2:15 PM - 4:15 PM

Marriott Marquis Washington, Marquis Ballroom, Salons 1-2
(Level M2)

Poster Discussion Session. B101. OMICS STUDIES OF IMMUNE CELLS AND THE LUNG

2:15 PM - 4:15 PM

103 - Association of Gut Microbiome Changes With Chronic Inflammation and Pulmonary Emphysema in a Nonhuman Primate Model of SIV Infection

S. Qin¹, A. Fitch², K. Li², A. Gregory¹, R. Tarantelli³, F. Schweitzer³, W. Rabacal³, K. A. Norris³, B. Methe², A. Morris¹;

¹Department of Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²Center for Medicine and the Microbiome, University of Pittsburgh, Pittsburgh, PA, United States, ³Center for Vaccines and Immunology, University of Georgia, Athens, GA, United States.

May 22, 2023, 2:15 PM - 4:15 PM

Marriott Marquis Washington, Marquis Ballroom, Salons 9-10
(Level M2)

Poster Discussion Session. B104. TOP CASE REPORTS OF MECHANICAL VENTILATION/ARDS FROM THE PAST YEAR

2:15 PM - 4:15 PM

Moderator

Faraaz Ali. Shah, MD, MPH. University of Pittsburgh Medical Center, Pittsburgh, PA

May 22, 2023, 2:15 PM - 4:15 PM

Walter E. Washington Convention Center, Room 151 A (Street Level)

Poster Discussion Session. B108. IMMUNE CELLS TO THE RESCUE IN LUNG INJURY

2:15 PM - 4:15 PM

403 - Systematic Comparison of Murine Models of Chronic Lung Allograft Dysfunction

M. Bueno¹, X. Wang², P. Suresh¹, B. Chuan¹, M. Brown¹, M. E. Snyder², J. F. Mcdyer¹, O. Eickelberg¹;

¹Division of Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²Medicine, University of Pittsburgh, Pittsburgh, PA, United States.

2:15 PM - 4:15 PM

404 - Secondary Lymphoid Organ Repopulation With Cytotoxic Tissue Resident Memory T Cells After Lung Transplantation

K. Moghbeli¹, M. Lipp², A. Craig¹, A. Bondonese³, L. Fan¹, K. Chen⁴, J. F. Mcdyer⁵, M. E. Snyder⁶;

¹Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²School of Pharmacy, University of Pittsburgh, Pittsburgh, PA, United States, ³Department of Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ⁴UPMC Montefiore 628.5 NW, University of Pittsburgh, Pittsburgh, PA, United States, ⁵University of Pittsburgh, Pittsburgh, PA, United States, ⁶Medicine, University of Pittsburgh, Pittsburgh, PA, United States.

May 22, 2023, 2:15 PM - 4:15 PM

Walter E. Washington Convention Ctr, Room 151B (Street Level)

Poster Discussion Session. B109. BIOMARKERS, GENETICS, AND OMICS IN SLEEP DISORDERED BREATHING

2:15 PM - 4:15 PM

513 - Obstructive Sleep Apnea May Impact Inflammation in People With HIV Through the Adenosine Pathway

P. V. Borker¹, B. Macatangay², B. Morris², A. Morris¹, S. Nourai¹, X. Chen¹, S. R. Patel¹;

¹Division of Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²Division of Infectious Diseases, University of Pittsburgh, Pittsburgh, PA, United States.

May 22nd, 5-7 pm

The Marriott Marquis DC, in Marquis Ballroom Salon 5

All Assembly Membership Meeting

Anuradha Ray

Assembly on Allergy, Immunology & Inflammation (All) Scientific Achievements Award

May 22, 2023, 5-7pm

Corrine Kliment

Jo Rae Wright Award, RCMB Assembly

Presented during: **ATS 2023 Respiratory Cell and Molecular Biology (RCMB) Membership Meeting**

Marriott Marquis, Washington D.C.

Liberty Ballroom, Salon M-P (Meeting Level 4)

901 Massachusetts Ave NW, Washington, DC

May 23, 2023, 9:00 AM - 11:00 AM

Marriott Marquis Washington, Independence Ballroom Salons
A-D (Level M4)

Mini Symposium. C13. CYTOKINES: CYTOKINES IN THE AIRWAYS

9:00 AM - 11:00 AM

Moderator

Marc Gauthier, MD. Univ of Pittsburgh, Pittsburgh, PA

9:36 AM - 9:48 AM

N-terminal Truncated Forms of the Cytokine IL-36γ Derived From Host Proteases Induce Airspace Neutrophil Recruitment and CXCL-5 Production in the Lung

M. Tabary¹, H. F. Penalzoza², X. An³, M. Kochin¹, **W. Bain**⁴, Z. Xiong⁵, J. Lee⁶;

¹Pulmonary, allergy, and critical care medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²Millennium Institute on Immunology and Immunotherapy, Santiago, Chile, ³University of Pittsburgh, Pittsburgh, PA, United States, ⁴PACCM, UPMC, Pittsburgh, PA, United States, ⁵Pulmonary Allergy Critical Care Medicine, Pittsburgh, PA, United States, ⁶Div of PACCM, Univ of Pittsburgh, Pittsburgh, PA, United States.

May 23, 2023, 9:00 AM - 11:00 AM

Walter E. Washington Convention Center, Ballroom B (Level 3)

Mini Symposium. C15. EMERGING COPD DIAGNOSTICS AND TREATMENTS

9:00 AM - 11:00 AM

Moderator

Jessica Bon, MD, MS, ATSF. Univ of Pittsburgh, Pittsburgh, PA

May 23, 2023, 9:00 AM - 11:00 AM

Walter E. Washington Convention Center, Room 202B (Level 2)

Mini Symposium. C19. EMERGING MECHANISMS IN COPD AND ASTHMA

9:12 AM - 9:24 AM

Single Cell RNA Sequencing Identifies Dysfunctional Alveolar Type II Subsets Derived by Club Cells in Chronic Obstructive Pulmonary Disease

Y. Hu¹, Q. Hu², K. Riemondy³, M. Ansari⁴, B. Gao¹, W. J. Janssen⁵, H. Schiller⁴, C. M. Evans¹, **M. Koenigshoff**;

¹Division of Pulmonary Sciences and Critical Care Medicine,

University of Colorado School of Medicine, Aurora, CO, United States, ²Div of Pulmonary, Allergy & Critical Care Med, Univ of Pittsburgh Medical Center, Pittsburgh, PA, United States, ³Biochemistry and Molecular Genetics, University of Colorado, Aurora, CO, United States, ⁴Institute of Lung Biology and Disease , Comprehensive Pneumology Center Munich, Helmholtz Zentrum München, Munich, Germany, ⁵Medicine, National Jewish Health, Denver, CO, United States.

10:24 AM - 10:36 AM

Steroid-resistant Severe Asthma and Fatal Asthma Small Airways Are Defined by Mucus Plugging and Heterogeneous MUC5AC Expression

S. Schworer¹, K. Okuda¹, H. Dang¹, T. Kato¹, G. Chen¹, R. Gilmore¹, M. Chua¹, H. Trejo Bittar², B. Cody², J. Trudeau³, W. K. O'Neal¹, S. H. Randell¹, **S. E. Wenzel⁴**, R. C. Boucher¹;

¹Marsico Lung Institute, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ²Pathology, UPMC, Pittsburgh, PA, United States, ³Environmental and Occupational Health, University of Pittsburgh, Pittsburgh, PA, United States, ⁴Professor of Med PACCM, Univ of Pittsburgh, Pittsburgh, PA, United States.

10:48 AM - 11:00 AM

Mitochondrial Adenine Nucleotide Translocase 2 (Ant2) Regulates Alveolar Epithelial Cell Senescence and Repair in COPD

C. R. Kliment¹, J. Sui², I. Walsh³, N. Oury³, J. Shi³, **Q. Hu⁴**, **M. Koenigshoff⁵**;

¹Medicine - Pulmonary, Allergy and Critical Care, University of Pittsburgh, Pittsburgh, PA, United States, ²Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, ³Medicine - Pulmonary, Allergy and Critical Care, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, ⁴Medicine, Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, ⁵Div of Pulmonary, Allergy & Critical Care Med, Univ of Pittsburgh School of Medicine, Pittsburgh, PA, United States.

May 23, 2023, 9:00 AM - 11:00 AM

Walter E. Washington Convention Center, Room 151 B (Street Level)

Poster Discussion Session. C23. BUILDING THE FUTURE OF CRITICAL CARE: STUDIES IN MEDICAL EDUCATION

9:00 AM - 11:00 AM

503 - Comparison of an Online Simulator to a Traditional Lung Simulator for Teaching Mechanical Ventilation

S. Safadi¹, M. Acho², **S. Maximous³**, M. Keller⁴, E. Kriner⁵, C. J. Woods⁶, J. Sun⁴, V. K. Holden⁷, T. B. Jausurawong⁸, K. Hawkins⁹, J. Ahari¹⁰, D. B. Jamieson¹¹, N. G. Shah⁷, B. S. Staitieh¹², N. P. Herbst¹², A. Levine⁷, N. Huprikar¹³, B. W. Lee⁴, N. Seam⁴;

¹Nephrology and Hypertension, University of Minnesota, Minneapolis, MN, United States, ²Pulmonary and Critical Care Medicine, University of Michigan Medical Center, Ann Arbor, MI, United States, ³Pulmonary Allergy and Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ⁴Critical Care Medicine, National Institutes of Health, Bethesda, MD, United States, ⁵Respiratory Therapy, Medstar Washington Hospital Center, Washington, DC, United States, ⁶Pulmonary and Critical Care Medicine, Medstar Washington Hospital Center, Washington, DC, United States, ⁷Pulmonary and Critical Care Medicine, University of Maryland Medical Center, Baltimore, MD, United States, ⁸Critical Care Medicine, Medstar Washington Hospital Center, Washington, DC, United States, ⁹Critical Care Medicine, George Washington University School of Medicine, Washington, DC, United States, ¹⁰Pulmonary and Critical Care Medicine, George Washington University School of Medicine, Washington, DC, United States, ¹¹Pulmonary and Critical Care Medicine, Medstar Georgetown University Hospital, Washington, DC, United States, ¹²Pulmonary Allergy Critical Care and Sleep Medicine, Emory University, Atlanta, GA, United States, ¹³Pulmonary and Critical Care Medicine, Walter Reed National Military Medical Center, Bethesda, MD, United States.

9:00 AM - 11:00 AM

507 - Flipped Classroom Approach to Teaching Ultrasound-guided Peripheral Venous Access in Internal Medicine Residents Facilitates Instructor Efficiency Without Compromising Trainee Experience

M. Gorgone¹, C. Cene-Kush¹, A. Lim², R. Pace², S. Keil², **S. Maximous¹**;

¹Department of Medicine, Division of Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ²Division of General Internal

Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States.

May 23, 2023, 9:00 AM - 11:00 AM Marriott Marquis Washington, Marquis Ballroom, Salons 9-10 (Level M2)

Poster Discussion Session. C28. FROM OMICS TO EX VIVO MODELS: A ROAD MAP FOR NOVEL THERAPIES IN LUNG FIBROSIS

9:00 AM - 11:00 AM

Moderator

Melanie Koenigshoff, MD, PhD, ATSF. Univ of Pittsburgh Medical Center, Pittsburgh, PA

9:00 AM - 11:00 AM

1011 - Fibrotic Cocktail Treated Human Precision Lung Slices Replicate the Cellular Diversity of the IPF Lung

A. Justet¹, R. H. Pineda², T. Adams³, A. Balayev⁴, **N. Mitash⁵, M. Ishizuka⁶**, H. Kim¹, J. D. Cala Garcia⁷, J. Flint⁸, J. C. Schupp⁹, F. Ahangari¹⁰, X. Yan¹¹, I. O. Rosas¹², **M. Koenigshoff¹³**;

¹Internal Medicine - PCCSM, Yale School Medicine, New Haven, CT, United States, ²Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ³Pulmonary, Critical Care and Sleep Medicine, New Haven, CT, United States, ⁴Pulmonology, Critical Care & Sleep Medicine, Yale University, New Haven, CT, United States, ⁵Pulmonary Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ⁶Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ⁷Pulmonary, Baylor College of Medicine, Houston, TX, United States, ⁸PCCSM, Yale School of Medicine, New Haven, CT, United States, ⁹Respiratory Medicine, Hannover Medical School, Hannover, Germany, ¹⁰Pulmonary, Yale School of Medicine, New Haven, CT, United States, ¹¹Section of Pulmonary, Critical Care & Sleep Medicine, Department of Internal Medicine, Yale University School of Medicine, New Haven, CT, United States, ¹²Pulmonary Critical Care and Sleep Medicine, Baylor College of Medicine, Houston, TX, United States, ¹³Div of Pulmonary, Allergy & Critical Care Med, Univ of Pittsburgh Medical Center, Pittsburgh, PA, United States.

9:00 AM - 11:00 AM

1013 - Dissecting Trigger-Specific Cellular Senescence in Human Precision-Cut Lung Slices

D. Beaulieu¹, Q. Hu¹, R. H. Pineda¹, M. Ishizuka¹, M. Bueno¹, J. Sembrat¹, Y. Zhang¹, T. Finkel², **O. Eickelberg¹, M. Koenigshoff¹**;

¹Division of Pulmonary, Allergy & Critical Care Medicine, University

of Pittsburgh, Pittsburgh, PA, United States, ²Division of Cardiology, Aging Institute, Pittsburgh, PA, United States.

Tuesday, May 23rd, 11:30 am

Plenary Session Walter E. Washington Convention Center Hall E (Level 2)

ATS Outstanding Clinician Award - Kevin F. Gibson, MD

May 23, 2023, 9:00 AM - 4:15 PM Walter E. Washington Convention Center, Area F, Hall C (Lower Level)

Thematic Poster Session. C32. THE AIRWAY BATTLE FOR DOMINANCE: IMMUNE SYSTEM VERSUS INFECTIONS

11:30 AM - 1:15 PM

Facilitator

Tomeka Lynette. Suber, MD, PhD. University of Pittsburgh Medical Center, Pittsburgh, P

11:30 AM - 1:15 PM

P632 - Hepatitis C Viremia and Diffusing Capacity for Carbon Monoxide in Women With and Without Human Immunodeficiency Virus

A. Curnow¹, L. Huang¹, M. Fischl², M. Floris-Moore³, **A. Morris**⁴, M. Nouraie⁴, D. B. Reddy⁵, E. C. Seaberg⁶, A. N. Sheth⁷, P. C. Tien¹, R. J. Wang¹;

¹Department of Medicine, University of California San Francisco, San Francisco, CA, United States, ²Department of Medicine, University of Miami Miller School of Medicine, Miami, FL, United States, ³Department of Medicine, University of North Carolina School of Medicine, Chapel Hill, NC, United States, ⁴Department of Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ⁵Department of Medicine, Albert Einstein College of Medicine, Bronx, NY, United States, ⁶Department of Epidemiology, Johns Hopkins University, Baltimore, MD, United States, ⁷Department of Medicine, Emory University School of Medicine, Atlanta, GA, United States.

May 23, 2023, 9:00 AM - 4:15 PM Walter E. Washington Convention Center, Area E, Hall C (Lower Level)

Thematic Poster Session. C39. CARE AND EVALUATION OF PATIENTS WITH INTERSTITIAL LUNG DISEASE

11:30 AM - 1:15 PM

P531 - Bronchoalveolar Lavage Fluid and Radiographic Patterns in Patients With Fibrotic Interstitial Lung Disease

A. Grant-Orser¹, M. Asmussen², D. Marinescu³, C. Hague⁴, N. Muller⁵, D. Murphy⁶, A. M. Churg⁷, J. L. Wright³, A. Al-Arnawoot⁸, A. Bilawich⁹,

P. Bourgouin¹⁰, G. P. Cox¹¹, C. Durand¹², T. Elliot¹³, J. Ellis¹⁴, J. H. Fisher¹⁵, D. Fladeland¹⁶, **G. C. Goobie**¹⁷, Z. Guenther¹³, E. Haider⁸, N. Hambly¹⁸, J. Huyhn¹, G. Karjala¹⁶, N. Khalil¹⁹, M. R. Kolb²⁰, J. Leipsic⁹, S. D. Lok²¹, S. Macisaac¹⁸, M. McInnis²², H. Manganas²³, V. Marcoux²⁴, J. Mayo⁹, J. Morisset²⁵, C. J. Scallan¹⁸, T. Sedlic⁹, S. Shapera²⁶, K. Sun²⁷, K. Sun²⁸, V. Tan⁸, A. W. Wong²⁹, B. Zheng³⁰, C. J. Ryerson³¹, K. A. Johannson³²;

¹Department of Medicine, 403-956-2848, Calgary, AB, Canada, ²Department of Biology, Mount Royal University, Calgary, AB, Canada, ³University of British Columbia, Vancouver, BC, Canada, ⁴Department of Radiology, University of British Columbia, Calgary, BC, Canada, ⁵Univ of British Columbia, Vancouver, BC, Canada, ⁶Department of Radiology, St James Hospital, Dublin, Ireland, ⁷Pathology, Vancouver General Hospital, Vancouver, BC, Canada, ⁸Department of Radiology, McMaster University, Hamilton, ON, Canada, ⁹Department of Radiology, University of British Columbia, Vancouver, BC, Canada, ¹⁰Department of Radiology, University of Montreal, Montreal, QC, Canada, ¹¹St Josephs Health Care, Hamilton, ON, Canada, ¹²Université de Montréal, Montreal, QC, Canada, ¹³Department of Radiology, University of Calgary, Calgary, AB, Canada, ¹⁴Department of Medicine, University of British Columbia, Vancouver, BC, Canada, ¹⁵University Health Network, Toronto, ON, Canada, ¹⁶Department of Medical Imaging, University of Saskatchewan, Saskatoon, SK, Canada, ¹⁷Division of Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ¹⁸Respirology, McMaster University, Hamilton, ON, Canada, ¹⁹The University of British Columbia, Vancouver, BC, Canada, ²⁰Mc Master Univ, Hamilton, ON, Canada, ²¹University of Saskatchewan, Saskatoon, SK, Canada, ²²Department of Medical Imaging, University of Toronto, Toronto, ON, Canada, ²³Medicine, CHUM, Montreal, QC, Canada, ²⁴Department of Medicine, University of Saskatchewan, Saskatoon, SK, Canada, ²⁵Centre Hospitalier de l'Université de Montréal, Montreal, QC, Canada, ²⁶Medicine, University of Toronto, Toronto, ON, Canada, ²⁷United States, ²⁸Department of Medicine, University of Toronto, Toronto, ON, Canada, ²⁹Centre for Heart Lung Innovation, Vancouver, BC, Canada, ³⁰Department of Medicine, McGill University, Montreal, QC, Canada, ³¹Dept Medicine, University of British Columbia, Vancouver, BC, Canada, ³²Medicine, University of Calgary, Calgary, AB, Canada.

11:30 AM - 1:15 PM

P539 - Differences in Exertional Oxygen Needs in Idiopathic Pulmonary Fibrosis (IPF) and Chronic Obstructive Pulmonary Disease (COPD): Use of a Ramped Protocol Treadmill Exercise Test

K. Clark¹, S. Nourai², J. Bon³, F. C. Scirba¹, D. Kass¹;

¹Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh Medical Center (UPMC), Pittsburgh, PA, United States, ²Medicine, PACCM, University of Pittsburgh, Pittsburgh, PA, United States, ³University of Pittsburgh, Pittsburgh, PA, United States.

May 23, 2023, 9:00 AM - 4:15 PM

Walter E. Washington Convention Center, Area B, Hall C (Lower Level)

Thematic Poster Session. C40. CLINICAL TRIALS AND NOVEL INTERVENTIONS IN COPD

11:30 AM - 1:15 PM

P173 - Ensifentrine, a Novel Dual Phosphodiesterase (PDE) 3 and 4 Inhibitor, Improves Lung Function, Symptoms, Quality of Life and Reduces Exacerbation Rate and Risk in Patients With COPD: Results From Replicate Phase 3 Trials

F. C. Scirba¹, A. Anzueto², T. Rheault³, T. Bengtsson⁴, K. Rickard³;

¹Univ of Pittsburgh Med Ctr, Pittsburgh, PA, United States, ²Medicine/Pulmonary Critical Care, South Texas Veterans Health Care System, San Antonio, TX, United States, ³Verona Pharma plc, Raleigh, NC, United States, ⁴Stat Mind AB, Lund, Sweden.

11:30 AM - 1:15 PM

P174 - Ensifentrine, a Novel Dual Phosphodiesterase (PDE) 3 and 4 Inhibitor, Improves Lung Function, Symptoms, Quality of Life and Reduces Exacerbation Rate and Risk in the Enhance-1 Phase 3 Trial of Ensifentrine in COPD

F. C. Scirba¹, R. A. Wise², T. Rheault³, T. Bengtsson⁴, K. Rickard³;

¹Univ of Pittsburgh Med Ctr, Pittsburgh, PA, United States, ²Pulmonary and Critical Care, Johns Hopkins Univ School of Medicine, Baltimore, MD, United States, ³Verona Pharma plc, Raleigh, NC, United States, ⁴Stat Mind AB, Lund, Sweden.

11:30 AM - 1:15 PM

P175 - Ensifentrine, a Novel Dual Phosphodiesterase (PDE) 3 and 4 Inhibitor, Significantly Improves COPD Symptoms and Quality of Life in the Phase 3 Enhance-1 Trial

F. C. Scirba¹, T. Rheault², T. Bengtsson³, K. Rickard²;

¹Univ of Pittsburgh Med Ctr, Pittsburgh, PA, United States, ²Verona

Pharma plc, Raleigh, NC, United States, ³Stat Mind AB, Lund, Sweden.

May 23, 2023, 9:00 AM - 4:15 PM Walter E. Washington Convention Center, Area L, Hall C (Lower Level)

Thematic Poster Session. C42. ZEBRAS AND PEANUTS: FOREIGN BODIES AND RARE CASES FROM IP AND PLEURAL DISEASE

11:30 AM - 1:15 PM

Facilitator

Daniel G. Dunlap, MD. University of Pittsburgh, Pittsburgh, PA

May 23, 2023, 9:00 AM - 4:15 PM Walter E. Washington Convention Center, Area A, Hall C (Lower Level)

Thematic Poster Session. C49. HEMATOLOGY/ONCOLOGY CRITICAL CARE CASES

11:30 AM - 1:15 PM

P91 - Cerebral Fat Embolism Syndrome in an Adult Patient With Sickle Cell Disease

P. Solanki¹, A. Y. N. Lim¹, J. H. Skiba², **C. A. Tarantine³, R. P. Ramonell³**;

¹Department of Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, ³Division of Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States.

May 23, 2023, 9:00 AM - 4:15 PM Walter E. Washington Convention Center, Area E, Hall C (Lower Level)

Thematic Poster Session. C57. CASE REPORTS IN PULMONARY AND ENVIRONMENTAL HEALTH

11:30 AM - 1:15 PM

P580 - A Case of Hyphae-hypersensitivity

R. Wojcik¹, K. Gibson¹, R. P. Ramonell²;

¹UPMC, Pittsburgh, PA, United States, ²Department of Medicine, University of Pittsburgh, Pittsburgh, PA, United States.

May 23, 2023, 9:00 AM - 4:15 PM Walter E. Washington Convention Center, Area C, Hall C (Lower Level)

Thematic Poster Session. C65. A LOT OF FUNGI!

11:30 AM - 1:15 PM

Lead Facilitator

Chadi A. Hage, MD, ATSF. University of Pittsburgh, Pittsburgh, PA

May 23, 2023, 9:00 AM - 4:15 PM Walter E. Washington Convention Center, Area C, Hall C (Lower Level)

Thematic Poster Session. C66. VIRAL INFECTIONS, COVID, AND BEYOND

11:30 AM - 1:15 PM

P305 - Engineered Derivative of Soluble ACE2 for Enhanced Catalytic Activity and Pharmacokinetics Shows Profoundly Improved Therapeutic Efficacy for SARS-CoV-2-induced Lung Injury and Mortality

L. Zhang¹, E. Procko²;

¹Pulmonary Allergy and Critical Care Medicine, The University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, ²Biochemistry, University of Illinois, Urbana, IL, United States.

May 23, 2023, 9:00 AM - 4:15 PM

Walter E. Washington Convention Center, Area D, Hall C (Lower Level)

Thematic Poster Session. C68. TOPICS IN AIRWAY AND ALVEOLAR EPITHELIAL CELL BIOLOGY

11:30 AM - 1:15 PM

P362 - Ciliated Airway Epithelial Cell Numbers and Types Associate With 15 Lipoxygenase-1 (15LO1) Expression and Worse Asthma Outcomes

L. R. Bradley, J. B. Trudeau, K. Yamada, J. Zhao, **S. E. Wenzel**;

Environmental and Occupational Health, University of Pittsburgh, Pittsburgh, PA, United States.

11:30 AM - 1:15 PM

P368 - IL-13 Enhances Polyinosinic-polycytidylic Acid (Poly I:C)-induced Antiviral Responses Which Are Variably Modulated by the Mucin MUC4 in Human Airway Epithelial Cells (HAECs)

Q. Wei¹, X. Zhou¹, J. Zhao¹, J. B. Trudeau¹, L. R. Bradley¹, **S. E. Wenzel**²;

¹University of Pittsburgh School of Public Health, Pittsburgh, PA, United States, ²University of Pittsburgh School of Public Health; University of Pittsburgh Medical Center, Pittsburgh, PA, United States.

May 23, 2023, 9:00 AM - 4:15 PM

Walter E. Washington Convention Center, Area D, Hall C (Lower Level)

Thematic Poster Session. C69. PRECLINICAL COPD MODELS: IN VITRO, EX VIVO, IN VIVO

11:30 AM - 1:15 PM

Facilitator

Corrine R. Kliment, MD, PhD. University of Pittsburgh, Pittsburgh, PA

May 23, 2023, 9:00 AM - 4:15 PM

Walter E. Washington Convention Center, Area D, Hall C (Lower Level)

Thematic Poster Session. C70. COPD (AND LUNG CANCER) CLINICAL AND TRANSLATIONAL STUDIES

11:30 AM - 1:15 PM

Facilitator

Divay Chandra, MD. University of Pittsburgh Medical Center, Pittsburgh, PA

11:30 AM - 1:15 PM

P430 - Expression Levels of MZB1 Reveal Two Distinct COPD Subtypes

Y. Lai, M. Tuysserkani, A. S. Leme, P. Suresh, M. Koenigshoff, O. Eickelberg;

Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States.

11:30 AM - 1:15 PM

P448 - QKI Regulates Cell Proliferation and Cigarette Smoke-induced Cytotoxicity in Cultured Human Bronchial Epithelial Cells

K. Uemasu¹, K. Tanimura², Z. Lane¹, S. Lakshmi¹, T. Nyunoya¹;

¹Division of Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²Department of Medicine, Nara Medical University, Nara-

ken, Japan.

May 23, 2023, 9:00 AM - 4:15 PM

Walter E. Washington Convention Ctr, Area I, Hall C Lower Level

Thematic Poster Session. C74. DO NOT MISS: SLEEP DISORDERS IN VULNERABLE POPULATIONS

11:30 AM - 1:15 PM

P952 - Habitual Sleep Duration in Men With and Without HIV Infection

P. M. Herrera Aldana¹, A. Abreu¹, D. M. Wallace², T. Brown³, S. R. Patel⁴, V. Stosor⁵, J. Hyong-Jin Cho⁶, G. D'Souza⁷, J. Margolick⁷, N. M. Punjabi⁸;

¹Pulmonary, Critical Care and Sleep Medicine, University of Miami, Miami, FL, United States, ²University of Miami, Miami, FL, United States, ³Pulmonary, Critical Care and Sleep Medicine, Johns Hopkins University, Baltimore, MD, United States, ⁴PACCM Division, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ⁵Pulmonary Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ⁶Psychiatry and Biobehavioral Sciences, University of California Los Angeles, Los Angeles, CA, United States, ⁷Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States, ⁸University of Miami, Miller School of Medicine, Miami, FL, United States.

May 23, 2023, 12:00 PM - 1:00 PM

Marriott Marquis Washington, LeDroit Park (Level M3)

Meet the Experts. MTE43. ORGANS-ON-CHIPS FOR THE LUNGS: PAST, CURRENT AND FUTURE

12:00 PM - 1:00 PM

Faculty

Kambez Hajjipouran Benam, PhD. University of Pittsburgh, Pittsburgh, PA

May 23, 2023, 2:15 PM - 3:45 PM

Walter E Washington Convention Center, Ballroom A (Level 3)

Clinical Topics in Pulmonary Medicine. C82. BEYOND THE LUNG: ADDRESSING COMORBIDITIES IN CHRONIC OBSTRUCTIVE PULMONARY DISEASE

3:19 PM - 3:33 PM

Comorbidity Screening in COPD: Challenges and Opportunities

Jessica Bon, MD, MS, ATSF. Univ of Pittsburgh, Pittsburgh, PA

May 23, 2023, 2:15 PM - 3:45 PM

Walter E. Washington Convention Center, Room 207A-B Level 2

Scientific Symposium. C86. BEYOND THE TRANSCRIPTOME: HOW THE MULTI-“OMIC” UNIVERSE PROVIDES NOVEL INSIGHTS INTO IPF/ILD PATHOGENESIS

2:41 PM - 2:54 PM

The next frontier: Proteomics of posttranslational modifications in IPF

Oliver Eickelberg, MD, ATSF. University of Pittsburgh Medical Center, Pittsburgh, PA

May 23, 2023, 2:15 PM - 4:15 PM

Walter E. Washington Convention Center, Ballroom B (Level 3)

Mini Symposium. C95. NOT JUST GENES: ENVIRONMENTAL EXPOSURES AND INTERSTITIAL LUNG DISEASE

3:03 PM - 3:15 PM

Pm_{2.5}-induced DNA Methylation Alterations in Patients With Fibrotic Interstitial Lung Disease

G. C. Goobie¹, **X. Li**², C. Carlsten¹, K. A. Johansson³, D. Marinescu¹, K. O. Lindell⁴, **K. Gibson**², J. P. Fabisiak⁵, D. Kass², C. J. Ryerson¹, **S. Nouraie**², **Y. Zhang**²;

¹Division of Respiratory Medicine, Department of Medicine, University of British Columbia, Vancouver, BC, Canada, ²Division of Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ³Division of Respiratory Medicine, Department of Medicine, University of Calgary, Calgary, AB, Canada, ⁴College of Nursing, Medical University of South Carolina, Charleston, SC, United States, ⁵Department of Environmental and Occupational Health, School of Public Health, University of Pittsburgh, Pittsburgh, PA, United States.

3:15 PM - 3:27 PM

MMP-7 Mediates PM2.5 and Mortality Associations in Patients With Idiopathic Pulmonary Fibrosis

S. E. Kim¹, X. Li², **K. F. Gibson³**, **D. Kass⁴**, **S. Nouraie⁵**, G. C. Goobie⁶, **Y. Zhang⁷**;

¹Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²University of Pittsburgh, Pittsburgh, PA, United States, ³Department of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine, Univ of Pittsburgh Med Ctr, Pittsburgh, PA, United States, ⁴Division of Pulmonary, Allergy, and Critical Care Medicine University of Pittsburgh Medical Center, University of Pittsburgh, Pittsburgh, PA, United States, ⁵Medicine, PACCM, University of Pittsburgh, Pittsburgh, PA, United States, ⁶Human Genetics, University of Pittsburgh, Pittsburgh, PA, United States, ⁷Univ of Pittsburgh, Pittsburgh, PA, United States.

May 23, 2023, 2:15 PM - 4:15 PM

Marriott Marquis Washington, Marquis Ballroom, Salons 1-2 (Level M2)

Poster Discussion Session. C103. MOVING THE NEEDLE FORWARD IN LUNG TRANSPLANTATION

2:15 PM - 4:15 PM

121 - Increased Bone Marrow Dysfunction in Lung Transplant Recipients With Telomere-mediated Pulmonary Fibrosis

S. Hannan¹, C. Iasella², R. Sutton¹, **I. Popescu¹**, R. Koshy¹, F. Rafic³, **C. Hage¹**, **P. Sanchez⁴**, **J. Alder¹**, **J. Mcdyer¹**;

¹PACCM, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ²University of Pittsburgh School of Pharmacy, Pittsburgh, PA, United States, ³University of Pittsburgh Medical Center Hillman Cancer Center, Pittsburgh, PA, United States, ⁴PACCM, University of Pittsburgh Medical Center Department of Cardiothoracic Surgery, Pittsburgh, PA, United States.

2:15 PM - 4:15 PM

122 - Diverse Clinicopathologic Features in Short Telomere Patients With Interstitial Lung Disease Undergoing Transplant

R. Sutton¹, **S. Hannan¹**, **R. Koshy¹**, **M. Scullo¹**, **C. A. Hage¹**, P. Sanchez², **J. K. Alder¹**, **J. F. Mcdyer¹**;

¹PACCM, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ²Cardiothoracic Surgery, University of Pittsburgh Medical Center, Pittsburgh, PA, United State

May 23, 2023, 2:15 PM - 4:15 PM

Walter E. Washington Convention Center, Room 151 A (Street Level)

Poster Discussion Session. C107. AT THE CROSSROADS OF DISEASE: METABOLIC AND INFLAMMATORY DRIVERS IN PULMONARY VASCULAR DISEASE

2:15 PM - 4:15 PM

Moderator

Lianghui Zhang, PhD. University of Pittsburgh School of Medicine, Pittsburgh, PA

May 23, 2023, 2:15 PM - 4:15 PM

Walter E. Washington Convention Center, Room 151 B (Street Level)

Poster Discussion Session. C108. IMMUNITY AND INFLAMMATION IN COPD: NOVEL FINDINGS

2:15 PM - 4:15 PM

518 - Macrophage Inflammatory and Metabolic Function Is Reduced With Loss of Adenine Nucleotide Translocase 1 (ANT1) in COPD

J. Sui¹, J. Shi¹, S. Shiva¹, **C. R. Kliment**²;

¹Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, ²Medicine - Pulmonary, Allergy and Critical Care, University of Pittsburgh, Pittsburgh, PA, United States.

May 23, 2023, 2:15 PM - 4:15 PM

Walter E. Washington Convention Center, Room 144 A-C (Street Level)

Poster Discussion Session. C110. ADVANCED SIGNAL ANALYSIS: NEW DIAGNOSTICS AND PHYSIOLOGIC INSIGHTS FOR SDB

2:15 PM - 4:15 PM

301 - Identifying Central Versus Obstructive Sleep Apnea in Patients With Heart Failure

R. M. Alex¹, S. Javaheri², R. Khayat³, J. Fang⁴, R. Majid⁵, **S. R. Patel**⁶, S. Parthasarathy⁷, G. Stewart⁸, S. Op De Beeck⁹, S. Marvin¹, L. Gell¹, J. Vader¹⁰, L. Chi¹¹, M. Teodorescu¹², P. Zee¹³, M. Badr¹⁴, K. Haffey¹⁵, D. Mann¹⁶, A. Wellman¹, R. Mehra¹⁷, N. A. Shah¹⁸, B. Mokhlesi¹⁹, E. Lewis²⁰, W. Abraham²¹, S. S. Redline¹, S. A. Sands¹;

¹Division of Sleep & Circadian Disorders, Brigham and Women's Hospital, Boston, MA, United States, ²Division of Medicine, The Ohio State University, Columbus, OH, United States, ³Division of Pulmonary and Critical Care Medicine, University of California, Irvine, CA, United States, ⁴Division of Cardiology, University of Utah, Salt Lake City, UT, United States, ⁵Divisions of Pulmonary, Critical Care and Sleep Medicine, McGovern Medical School, The University of Texas Health Science Center, Houston, TX, United States, ⁶PACCM Division, Univ of Pittsburgh Medical Center, Pittsburgh, PA, United States, ⁷Arizona Hlth Sci Center, Univ of Arizona, Tucson, AZ, United States, ⁸Division of Cardiology, Brigham and Women's Hospital, Boston, MA, United States, ⁹Translational Neurosciences - ENT, University of Antwerp, Wilrijk,

Belgium, ¹⁰Department of Cardiology, Washington University School of Medicine, St Louis, MO, United States, ¹¹Department of Neurology, Washington University School of Medicine, St. Louis, MO, United States, ¹²Univ of Wisconsin - Madison Sch of Med, Madison, WI, United States, ¹³Center for Circadian and Sleep Medicine, Department of Neurology, Northwestern University Feinberg School of Medicine, Chicago, IL, United States, ¹⁴Div of Pulm Crit Care and Sleep Med, Wayne State University, Detroit, MI, United States, ¹⁵Saint Luke's Mid America Heart Institute, Kansas City, MO, United States, ¹⁶The University of Queensland, Brisbane, Australia, ¹⁷Cleveland Clinic Lerner College of Medicine, Case Western Reserve University, Cleveland, OH, United States, ¹⁸at Mount Sinai Division of Pulmonary, Critical Care, and Sleep Medicine, Icahn School of Medicine, New York, NY, United States, ¹⁹Division of Pulmonary, Critical Care, Sleep Medicine, Rush University Medical Center, Chicago, IL, United States, ²⁰Division of Cardiovascular Medicine and Cardiovascular Institute, Stanford University School of Medicine, Palo Alto, CA, United States, ²¹Division of Cardiovascular Medicine, The Ohio State University, Columbus, OH, United States.

May 24, 2023, 8:00 AM - 10:00 AM Walter E. Washington Convention Center, Room 206 (Level 2)
Poster Discussion Session. D21. TRANSLATIONAL COVID-19 STUDIES

8:00 AM - 10:00 AM

710 - Risk Factors for Symptomatic SARS-CoV2 Infection, Severe COVID-19, and Vaccination Response in the Severe Asthma Research Program

A. M. Rusk¹, J. M. Fanous², J. G. Zein³, B. Phillips⁴, R. Barr⁵, A. Krishnaswamy⁶, E. R. Blecker⁷, M. Castro⁸, L. C. Denlinger⁹, S. C. Erzurum¹⁰, R. J. Fahy¹¹, E. Israel¹², N. N. Jarjour¹³, D. T. Mauger⁴, W. C. Moore¹⁴, B. D. Levy¹², D. A. Meyers¹⁵, P. Woodruff¹⁶, **S. E. Wenzel**¹⁷, E. Oelsner¹⁸, V. E. Ortega¹⁹;

¹Pulmonary and Critical Care, Mayo Clinic, Phoenix, AZ, United States, ²Mayo Clinic, Phoenix, AZ, United States, ³Respiratory Institute, Cleveland Clinic, Cleveland, OH, United States, ⁴Penn State University, Hershey, PA, United States, ⁵Medicine, Columbia University Medical Center, New York, NY, United States, ⁶Columbia University, New York, NY, United States, ⁷Medicine, University of Arizona, Tucson, AZ, United States, ⁸Pulmonary Critical Care & Sleep Medicine, Univ of Kansas, Kansas City, KS, United States, ⁹Medicine, University of Wisconsin-Madison, Madison, WI, United States, ¹⁰Cleveland Clinic Foundation, Cleveland, OH, United

States, ¹¹Med Directorate, Trinity College Dublin, Dublin, Ireland, ¹²Brigham and Womens Hosp, Boston, MA, United States, ¹³Univ of Wisconsin Hosps & Clinics, Madison, WI, United States, ¹⁴Pulmonary and Critical Care Medicine, Wake Forest Sch of Med, Winston-Salem, NC, United States, ¹⁵Genetics, Genomics, and Precision Medicine, University of Arizona, Tucson, AZ, United States, ¹⁶Medicine, University of California, San Francisco, San Francisco, CA, United States, ¹⁷Professor of Med PACCM, Univ of Pittsburgh, Pittsburgh, PA, United States, ¹⁸Division of General Medicine, Department of Medicine, New York, NY, United States, ¹⁹Mayo Clinic, Scottsdale, AZ, United States.

8:00 AM - 10:00 AM

[719 - Pathogenesis of Severe Acute Respiratory Syndrome Corona Virus-2 \(SARS-CoV-2\) Accessory Protein Open Reading Frame 7b \(Orf7b\) in Thymus-cell \(T-cell\) Lymphopenia](#)

R. Deshpande¹, W. Li², **C. Zou**²;

¹Environmental and Occupational Health, University of Pittsburgh School of Public Health, Pittsburgh, PA, United States, ²Medicine, University of Pittsburgh, Pittsburgh, PA, United States.

May 24, 2023, 8:00 AM - 10:00 AM Walter E. Washington Convention Ctr, Room 209 A-C (Level 2)

Poster Discussion Session. D23. DIAGNOSTIC DILEMMAS: CASE REPORTS IN INTERSTITIAL LUNG DISEASE AND LUNG TRANSPLANTATION

8:00 AM - 10:00 AM

[820 - Intrapulmonary Administration of Recombinant Activated Factor VII in a Patient With Diffuse Alveolar Hemorrhage and Microscopic Polyangiitis](#)

H. Naiditch¹, **K. O. Allbright**¹, **N. Prendergast**¹, **S. Maximous**²;

¹Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ²Department of Medicine, Division of Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States.

May 24, 2023, 8:00 AM - 10:00 AM Marriott Marquis Washington, Marquis Ballroom, Salons 1-2 (Level M2)

Poster Discussion Session. D25. TOPICS IN SEPSIS AND SEPTIC SHOCK

8:00 AM - 10:00 AM

[107 - Physician-Level Variation in Steroid Prescribing Practices in Septic Shock: A Retrospective Cohort Study Using a Multi-Hospital Electronic Health Record](#)

J. S. Minturn¹, B. S. Davis¹, **K. Soni**², **I. Barbash**³, J. M. Kahn⁴;
¹Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²Pulmonary, Allergy, and Critical Care, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ³Pulmonary/CCM, UPMC, Pittsburgh, PA, United States, ⁴University of Pittsburgh, Pittsburgh, PA, United States.

8:00 AM - 10:00 AM

115 - Understanding Practice Variation When the Evidence Is Uncertain: A Longitudinal Survey of Critical Care Providers Steroid Use in Septic Shock

K. Soni¹, B. S. Davis², J. M. Levin³, L. A. Bukowski², J. M. Kahn²;
¹Pulmonary, Allergy, and Critical Care, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ²Critical Care Medicine, University of Pittsburgh School of Medicine, Pittsburgh, PA, United States, ³Katz School of Business, University of Pittsburgh, Pittsburgh, PA, United States.

8:00 AM - 10:00 AM

120 - Characterization of the Gastric Microbiome in Sepsis Within a Randomized Clinical Trial of Early Enteral Nutrients

S. Nath¹, C. Franz², S. Yende³, **D. G. Dunlap**¹, D. Scholl³, **B. Chuan**¹, **K. Li**⁴, **B. Methe**¹, **A. Fitch**⁴, **A. Patel**¹, **Y. Zhang**¹, **S. Nouraie**¹, D. T. Huang³, **A. Morris**¹, **B. J. Mcverry**¹, **G. Kitsios**¹, **F. A. Shah**¹;
¹Division of Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ²Critical Care Medicine, UPMC, Harrisburg, PA, United States, ³Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ⁴Center for Medicine & the Microbiome, University of Pittsburgh, Pittsburgh, PA, United States.

May 24, 2023, 8:00 AM - 10:00 AM

Walter E. Washington Convention Center, Room 201 (Level 2)

Poster Discussion Session. D29. TRANSLATIONAL RESEARCH IN IPF

8:00 AM - 10:00 AM

616 - Clinical and Radiographic Predictors of Mortality or Transplant in Patients With Idiopathic Pulmonary Fibrosis

S. Macisaac¹, A. Dvorkin-Gheva², S. D. Lok³, D. Marinescu⁴, A. Bilawich⁵, J. Mayo⁵, T. Sedlic⁵, J. Ellis⁵, D. Murphy⁵, A. M. Churg⁶, J. L. Wright⁷, Z. Guenther⁸, J. Huynh⁸, D. Fladeland⁹, G. Karjala⁹, M. McInnis¹⁰, A. Grant-Orser¹¹, **G. C. Goobie**¹², N. Khalil¹³, G. P. Cox¹⁴, M. R. Kolb¹⁵, C. J. Scallan¹, V. Marcoux¹⁶, H. Manganas¹⁷, J. Morisset¹⁸, S. Shapera¹⁹, J. H. Fisher²⁰, K. Sun²¹, B. Zheng²², A. W. Wong²³, C. J. Ryerson²⁴, K. A. Johansson²⁵, C. Hague⁵, J. Leipsic⁵, A. Al-Arnawoot²⁶, E. Haider²⁷, V. Tan²⁶, P. Bourgooin²⁸, C. Durand¹⁷, T. Elliot⁸, N.

Hambly¹;

¹Respirology, McMaster University, Hamilton, ON, Canada, ²Pathology & Molecular Medicine, McMaster University, Hamilton, ON, Canada, ³University of saskatchewan, Saskatoon, SK, Canada, ⁴university of british columbia, Vancouver, BC, Canada, ⁵Radiology, University of British Columbia, Vancouver, BC, Canada, ⁶Pathology, Vancouver General Hospital, Vancouver, BC, Canada, ⁷University of British Columbia, vancouver, BC, Canada, ⁸Radiology, University of Calgary, Calgary, AB, Canada, ⁹Radiology, University of Saskatchewan, Saskatoon, SK, Canada, ¹⁰Radiology, University of Toronto, Toronto, ON, Canada, ¹¹Department of Medicine, 403-956-2848, Calgary, AB, Canada, ¹²Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ¹³The Univ of British Columbia, Vancouver, BC, Canada, ¹⁴St Josephs Health Care, Hamilton, ON, Canada, ¹⁵Mc Master Univ, Hamilton, ON, Canada, ¹⁶Department of Medicine, University of Saskatchewan, Saskatoon, SK, Canada, ¹⁷Medicine, CHUM, Montreal, QC, Canada, ¹⁸Centre Hospitalier de l'Université de Montréal, Montreal, QC, Canada, ¹⁹Medicine, University of Toronto, Toronto, ON, Canada, ²⁰University Health Network, Toronto, ON, Canada, ²¹Medicine, university of toronto, Toronto, ON, Canada, ²²Rheumatology, McGill University, Montreal, QC, Canada, ²³University of British Columbia, Vancouver, BC, Canada, ²⁴Dept Medicine, University of British Columbia, Vancouver, BC, Canada, ²⁵Medicine, University of Calgary, Calgary, AB, Canada, ²⁶Radiology, McMaster University, Hamilton, ON, Canada, ²⁷Radiology, McMaster University, hamilton, ON, Canada, ²⁸Radiology, University of Montreal, Montreal, QC, Canada.

May 24, 2023, 10:30 AM - 11:30 AM Walter E. Washington Convention Center, Room 202 B (Level 2)
Outside Organization Session. L22. THE NHLBI LUNG TRANSPLANT CONSORTIUM

11:18 AM - 11:30 AM

[The Clinical and Molecular Impacts of Lung Primary Graft Dysfunction](#)

John F. Mcdyer, MD. University of Pittsburgh, Pittsburgh, PA

May 24, 2023, 11:00 AM - 12:00 PM Marriott Marquis Washington, Georgetown University (Level M1)

Meet the Experts. MTE55. RUNNING AN EFFECTIVE INTERSTITIAL LUNG DISEASE MULTIDISCIPLINARY MEETING: REACHING THE GOLD STANDARD

11:00 AM – 12:00 PM

Faculty

Eleanor Valenzi, MD. University of Pittsburgh, Pittsburgh, PA

May 24, 2023, 11:00 AM - 12:00 PM Marriott Marquis Washington, Howard University (Level M1)
Meet the Experts. MTE56. COMPLEX IN VITRO MODELS OF THE LUNG: BRIDGING THE GAP BETWEEN DISEASE COMPLEXITY AND THERAPEUTICS

11:00 AM – 12:00 PM

Faculty

Melanie Koenigshoff, MD, PhD, ATSF. Univ of Pittsburgh Medical Center, Pittsburgh, PA

May 24, 2023, 12:00 PM - 1:30 PM Walter E. Washington Convention Ctr, Room 207 A-B (Level 2)
Scientific Symposium. D89. OSA-ASSOCIATED INFLAMMATION AND COMORBIDITIES: CAUSES AND CONSEQUENCES

12:50 PM - 1:05 PM

Investigating the Impact of Sleep Health on HIV-Associated Inflammation

Priya Vassant. Borker, MD. University of Pittsburgh Medical Center, Pittsburgh, PA

May 24, 2023, 12:00 PM - 2:00 PM Walter E Washington Convention Center, Ballroom A (Level 3)
Mini Symposium. D91. LOOKING FOR THE CRYSTAL BALL: BIOMARKERS TO PREDICT DISEASE PROGRESSION AND MORTALITY IN ILD

1:12 PM - 1:24 PM

Increasing Honeycombing and Traction Bronchiectasis on Computed Tomography Are Independent Predictors of Survival Across All Interstitial Lung Disease Subtypes

D. Marinescu¹, C. Hague¹, N. Muller¹, D. Murphy¹, A. M. Churg², J. Wright¹, A. Al-Arnawoot³, A. Bilawich¹, P. Bourgooin⁴, G. P. Cox³, C. Durand⁴, T. Elliot⁵, J. Ellis¹, J. H. Fisher⁶, D. Fladeland⁷, A. Grant-Orser⁵, **G. C. Goobie**⁸, Z. Guenther⁵, E. Haider³, N. Hambly³, J. Huynh⁵, K. A. Johannson⁵, G. Karjala⁷, N. Khalil¹, M. R. Kolb³, J. Leipsic¹, S. D. Lok⁷, S. Macisaac³, M. McInnis⁶, H. Manganas⁴, V. Marcoux⁷, J. Mayo¹, J. Morisset⁴, C. J. Scallan³, T. Sedlic¹, S. Shapera⁶, K. Sun⁶, V. Tan³, A. W. Wong¹, B. Zheng¹, C. J. Ryerson¹;
¹University of British Columbia, Vancouver, BC, Canada, ²Vancouver General Hospital, Vancouver, BC, Canada, ³McMaster University, Hamilton, ON, Canada, ⁴University of Montreal, Montreal, QC, Canada, ⁵University of Calgary, Calgary, AB, Canada, ⁶University of Toronto, Toronto, ON, Canada, ⁷University of Saskatchewan, Saskatoon, SK, Canada, ⁸University of Pittsburgh, Pittsburgh, PA, United States.

May 24, 2023, 12:00 PM - 2:00 PM Walter E. Washington Convention Ctr, Room 204 A-C (Level 2)
Mini Symposium. D96. NOVEL PATHWAYS IN INFLAMMATORY LUNG INJURY

12:00 PM - 2:00 PM

Moderator

Kambez Hajipouran Benam, PhD. University of Pittsburgh, Pittsburgh, PA

12:12 PM - 12:24 PM

The Role of Innate B Cells as Progenitors of the Mzb1+ Plasma Cells in Chronic Rejection After Lung Transplantation

M. Bueno¹, P. Suresh¹, B. Chuan¹, X. Wang², O. Eickelberg¹;

¹Division of Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh, Pittsburgh, PA, United States, ²Medicine, University of Pittsburgh, Pittsburgh, PA, United States.

May 24, 2023, 12:00 PM - 2:00 PM Walter E. Washington Convention Center, Room 202 A (Level 2)
Mini Symposium. D97. IMPACT OF COPD ACROSS THE LIFESPAN

1:48 PM - 2:00 PM

The Impact of Chronic Obstructive Lung Disease (COPD) on Lung Cancer in the Pittsburgh Lung Screening Study (PLUSS)

H. Strollo¹, R. Wang¹, D. O. Wilson²;

¹University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ²PACCM, UPMC, Pittsburgh, PA, United States.

May 24, 2023, 12:00 PM - 2:00 PM Walter E. Washington Convention Center, Room 206 (Level 2)
Poster Discussion Session. D101. HOST DEFENSES AND IMMUNE CELLS

12:00 PM - 2:00 PM

709 - Interleukin-13 Impact on Cell Differentiation Patterns of Human Airway Epithelial Cell Subsets

M. R. Anand¹, J. Zhao², K. Yamada³, J. Trudeau⁴, S. E. Wenzel¹;

¹Eastern Virginia Medical School, Norfolk, VA, United States, ²Environmental and Occupational Health, University of Pittsburgh Graduate School of Public Health, University of Pittsburgh Asthma and Environmental Lung Health Institute, Pittsburgh, PA, United States, ³Respiratory Medicine, Osaka Metropolitan University Graduate School of Medicine, Osaka, Japan, ⁴Environmental and Occupational Health, University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA, United States.

May 24, 2023, 12:00 PM - 2:00 PM Marriott Marquis Washington, Marquis Ballroom, Salons 1-2 (Level M2)

Poster Discussion Session. D107. ADVANCING THE SCIENCE IN VIRAL INFECTIONS

12:00 PM - 2:00 PM

105 - Risk of Respiratory Symptoms in People With HIV Compared to HIV-Uninfected Persons: A Systematic Review and Meta-Analysis

I. Konstantinidis¹, R. H. Zou¹, S. N. Papageorgiou², A. Ronit³, M. B. Drummond⁴, K. M. Kunisaki⁵, K. A. Crothers⁶, S. Nouraie¹, A. Morris;

¹Division of Pulmonary, Allergy, and Critical Care Medicine, University of Pittsburgh Medical Center, Pittsburgh, PA, United States, ²Center of Dental Medicine, University of Zurich, Zurich, Switzerland, ³Department of Infectious Diseases, Copenhagen University Hospital, Copenhagen, Denmark, ⁴Division of Pulmonary and Critical Care Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ⁵Division of Pulmonary and Sleep Medicine, Minneapolis VA, Minneapolis, MN, United States, ⁶Division of Pulmonary, Critical Care and Sleep Medicine, University of Washington, Seattle, WA, United States.