

URMC at ATS 2022

May 15

Session A3 - FELLOWS CASE CONFERENCE

Expert Clinician

M. Patricia Rivera, MD, ATSF. Univ of N Carolina At Chapel Hill, Chapel Hill, NC

Session A22 - IMAGING AND MOLECULAR BIOMARKERS IN COPD

116 - Identification of Novel Biomarkers for COPD Phenotypes by Large-Scale Proteomics Analysis with UHR-IonStar

S. Sethi¹, X. Zhu², S. Shen², S. Qian³, G. Broderick⁴, M. Morris⁴, M. J. Mammen¹, J. Qu²;
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Session A25 - TOBACCO AND THC HEALTH SCIENCE

504 - Novel Delta-8-Tetrahydrocannabinol Vaporizers Contain Unlabeled Adulterants, Byproducts of Chemical Synthesis, and Heavy Metals

J. Meehan-Atrash, I. Rahman;
Environmental Medicine, University of Rochester, Rochester, NY, United States.

Session A25 - TOBACCO AND THC HEALTH SCIENCE

505 - Long-Term Toxicity of E-Cigarette Whole Body Aerosol Exposure Using Cardiovascular Health and Pulmonary Changes in Mice as Persistent Outcomes

N. Durmus¹, G. Grunig², A. Raja³, V. Goriainova³, H. Joung³, D. Chalupa⁴, A. C. Elder⁵, J. Zelikoff³;
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Session A15 - A BEAUTIFUL MIND: BIG DATA APPROACHES TO PEDIATRIC LUNG DISEASE

Association of the Gut Microbiome and Metabolome with Inhaled Corticosteroid Response in Childhood Asthma: A Pilot Study

K. Lee-Sarwar¹, S. Dedrick², B. Momeni³, R. S. Kelly¹, R. S. Zeiger⁴, G. T. O'Connor⁵, M. Sandel⁶, L. B. Bacharier⁷, A. Beigelman⁸, N. Laranjo¹, D. R. Gold¹, J. A. Lasky-Su¹, A. A. Litonjua⁹, Y. Liu¹, S. T. Weiss¹;
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Session A60 - PULMONARY FIBROSIS: ANIMAL AND CELL CULTURE MODELS

Facilitator

David Nagel, MD, PhD. University of Rochester Medical Center, Rochester, NY

Session A61 - BPD, LUNG DEVELOPMENT, AND NEONATAL LUNG DISEASE

Facilitator

Thomas J. Mariani, PhD. Univ of Rochester, Rochester, NY

Session A31 - REAL WORLD ASTHMA TREATMENT OUTCOMES, BIOMARKER STUDIES, PHENOTYPING, AND SEVERITY ASSESSMENTS

P727 - Correlates of Positive Methacholine Challenge Tests

S. Patrawala¹, C. Arevalo Rodriguez¹, R. Kraude², S. N. Georas³, S. Khurana³;

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Session A32 - UPDATES IN THE MOLECULAR AND CELLULAR UNDERPINNINGS OF ASTHMA

P740 - The Effect of Commonly Used Glucocorticoids in a Model of Virally-Induced Epithelial Barrier Dysfunction

P. A. Donohue¹, K. Norton¹, B. Dexter¹, T. Pressley¹, S. N. Georas²;

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Session A60 - PULMONARY FIBROSIS: ANIMAL AND CELL CULTURE MODELS

P274 - Elastin Degradation Products Differentially Respond to Anti-Fibrotic Medications

D. Nagel¹, R. M. Kottmann²;

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Session A66 - PHYSIOLOGIC STUDIES OF LUNG FUNCTION

P60 - Can Impulse Oscillometry Detect a Bronchoprotective Effect of Deep Inspiration in Healthy Subjects?

P. A. Donohue¹, N. Love², M. Connolly³, S. Khurana⁴, S. N. Georas⁵;

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Session L1 - CLIMATE CHANGE - AIR POLLUTION INTERACTIONS AND PULMONARY HEALTH: WHAT'S THE CURRENT STATE OF SCIENCE?

The Effect of Air Pollution and the Changing Climate on the Immune Response to Respiratory Viral Infection

Daniel Croft, MD, MPH. University of Rochester, Rochester, NY

Session A95 - THE IDEA GENERATOR: NOVEL RISK FACTORS AND FRESH APPROACHES TO DISEASE CHARACTERIZATION

Moderator

Augusto A. Litonjua, MD, MPH, ATSF. University of Rochester Medical Center, Rochester, NY

Session A96 - GIANTS STADIUM: TREATMENTS AND TRIALS IN PULMONARY HYPERTENSION

Long-Term Efficacy of Oral Treprostinil in Subjects with Pulmonary Arterial Hypertension: FREEDOM-EV Open-Label Extension Study

R. J. White¹, M. Broderick², C. Q. Deng², R. Grover², L. Holdstock², A. Khan³, G. Bohns Meyer⁴, B. Ng⁵, T. Pulido Zamudio⁶, I. Saib², P. Sepulveda⁷;

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Session A109 - THE ODYSSEY, NO LONGER A TRAGEDY: THE CONTINUUM OF LUNG CANCER

311 - Appropriate Follow-Up After Abnormal Lung Cancer Screening Examinations

L. M. Henderson¹, D. Durham¹, P. Perera¹, J. Long¹, L. Lane², D. Lamb¹, E. M. Metwally³, **M. Rivera**⁴;

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Session B26 - BREATHE IN, BREATHE OUT: INSIGHTS INTO PEDIATRIC ASTHMA

603 - Preschool Impulse Oscillometry, Respiratory Symptoms, and School-Age Asthma and Lung Function

H. Knihtila¹, B. Stubbs², V. Carey², N. Laranjo², R. S. Zeiger³, G. T. O'Connor⁴, S. T. Weiss², A. A. Litonjua⁵;

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Session B52 - GOLDEN GATE PARK: CLINICAL CARE OF THE PH PATIENT

Lead Facilitator

R. James White, MD, PhD. Univ of Rochester, Rochester, NY

Session B48 - OCCUPATIONAL AND EXPOSURE-RELATED CASE REPORTS

Lead Facilitator

Daniel Croft, MD, MPH. University of Rochester Medical Center, Rochester, NY

Session B31 - IMMUNE CELLS AND INFLAMMATORY PATHWAYS DRIVING LUNG INJURY AND INFECTION - VIEWS FROM THE BENCH

P348 - Identifying Alterations in the Pulmonary Immune System from Cases of Fatal COVID-19 versus Recovered and Non-Infected Controls

R. Misra¹, J. Java², G. Bandyopadhyay¹, S. Bhattacharya¹, C. Poole¹, H. Huyck¹, G. Deutsch³, T. J. Mariani¹, G. S. Pryhuber¹;

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Session B53 - MARINA: LEARNING FROM PH REGISTRIES AND CLINICAL TRIALS

P198 - Rationale and Design of the RiOciguAt UseRs (ROAR) Registry

R. Sulica¹, S. A. Mandras², C. E. Miller³, R. White⁴, N. H. Kim⁵, S. Bansilal⁶, V. Poon⁶, D. Johnson⁶, V. Carvajal⁶, M. M. Chakinala⁷;

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Session B59 - ACUTE LUNG INJURY AND ARDS: CELLS, TISSUES, AND ANIMAL MODELS

P916 - Non-Invasive Systemic Biomarker Assessment of Patients with E-cigarette or Vaping Use-Associated Lung Injury (EVALI)

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Session B61 - MOLECULAR AND CELLULAR MECHANISMS IN LUNG EPITHELIAL CELLS

P999 - Integrin Beta 4 Overexpression in Human Airway Epithelial Cells Prevents Diacetyl-Induced Anoikis

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Session B67 - YIN AND YANG: LUNG CANCER TREATMENT AND TOXICITY

P243 - Lung Cancer Screening in Individuals with and Without Lung-Related Comorbidity

E. M. Metwally, **M. Rivera**, D. D. Durham, L. Lane, P. Perera, D. Lamb, L. M. Henderson;
The University of North Carolina, Chapel Hill, NC, United States

Session B106 - UNION SQUARE: OBSERVATIONAL STUDIES AND CLINICAL TRIALS IN PULMONARY HYPERTENSION

608 - Clinical Improvement in Pulmonary Arterial Hypertension (PAH) Patients Transitioning from Selexipag to Oral Treprostinil: Interim Results from the ADAPT Registry

D. Lachant¹, R. Minkin², J. Swisher³, M. Mogri⁴, R. Zolty⁵, D. Shelton⁶, S. Seaman⁷, M. Broderick⁷, S. Sahay⁸;

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Session B107 - MOLECULAR MECHANISMS OF SARS-CoV-2, INFLUENZA, AND OTHER LUNG INFECTIONS

701 - Molecular Clock Rev-erb α Regulates Influenza A Virus-Induced Lung Fibrotic Progression via Collagen Stabilization

Q. Wang¹, J. Park², I. Sundar³, J. Lucas¹, L. Martinez-Sobrido², I. Rahman¹;

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Session B107 - MOLECULAR MECHANISMS OF SARS-CoV-2, INFLUENZA, AND OTHER LUNG INFECTIONS

722 - Transcriptomic Profiling of Lung Tissue from Active and Recovered SARS-CoV-2 Infections

S. Bhattacharya¹, C. S. Anderson², G. Bandyopadhyay¹, H. Hyuck¹, R. Misra³, G. S. Pryhuber⁴, T. J. Mariani⁵, NHLBI LungMAP Consortium;

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Session B107 - MOLECULAR MECHANISMS OF SARS-CoV-2, INFLUENZA, AND OTHER LUNG INFECTIONS

724 - Gene Expression Risk Scores for COVID-19 Illness Severity

S. Bhattacharya¹, D. Peterson², A. Baran², A. Branche¹, D. Croft¹, A. Corbett¹, E. Walsh¹, A. Falsey¹, T. J. Mariani³;

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Session B92 - THE PAST, PRESENT, AND FUTURE OF E-CIGARETTE OR VAPING ASSOCIATED LUNG ILLNESS (EVALI)

The Spectrum of E-Cigarette Induced Illness: EVALI Past and Present

Matthew D. McGraw, MD. University of Rochester, Rochester, NY

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Session C25 - TERRORISM, INHALATIONAL DISASTERS, AND DEPLOYMENT-RELATED LUNG DISEASE

210 - Novel Primary Human Airway Epithelial Signatures of Toxic Chemical Inhalation Exposures Identified from Single Cell RNA Sequencing

M. D. McGraw¹, C. Chu², S. Kim³, S. Bhattacharya⁴, J. Malik⁵, G. S. Pryhuber⁶, T. J. Mariani⁷;
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Session C29 - SENESCENCE, SENOLYTICS, AND AGING IN LUNG BIOLOGY

715 - Conditional Knockout of Telomere Protection Protein 1 (TPP1) in Lung Epithelium Triggers Senescence-Associated Lung Diseases and Increases Cancer Risk Upon Cigarette Smoke Exposure

T. Muthumalage, I. Rahman;
Environmental Medicine, University of Rochester Medical Center, Rochester, NY, United States.

Session C25 - TERRORISM, INHALATIONAL DISASTERS, AND DEPLOYMENT-RELATED LUNG DISEASE

222 - IL-17a Neutralization in Rats Exposed Repetitively to Diacetyl Vapors

E. House¹, S.-Y. Kim², C. J. Johnston³, M. D. McGraw²;
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Session B62 - E-CIGARETTES AND VAPING: ANIMAL AND CELL CULTURE MODELS

Facilitator

Thivanka Muthumalage, PhD. University of Rochester Medical Center, Rochester, NY

Session C55 - NOB HILL: CELLULAR ORIGINS OF PULMONARY VASCULAR DISEASE

P929 - Cracking the Coagulation Case in PAH with Extracellular Vesicles

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Session C59 - POTRERO HILL: CASE REPORTS IN PULMONARY HYPERTENSION

P987 - Nontraumatic Subdural Hematoma: A Cautionary Tale of Anticoagulation with Parenteral Prostacyclin Therapy

D. Roto, R. White, D. Lachant;
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Session C65 - COPD: PRE-CLINICAL MODELS AND MECHANISMS

P445 - Exosomal miR122, a Potential Prognostic Marker and Therapeutic Target in COPD

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Session C65 - COPD: PRE-CLINICAL MODELS AND MECHANISMS

P472 - MiR-150-5p Modulates Pulmonary Inflammation and Secretory Mucin Expression Associated with Cigarette Smoke-Induced Chronic Obstructive Pulmonary Disease

H. S. Chand¹, D. Devadoss¹, M. Manevski¹, B. Moukette², S. Kawaguchi², M. N. Sapulveda², N. P. Barupala², H. J. Unwalla¹, **I. Rahman**³, G. M. Borchert⁴, I. Kim²;

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Session C92 - SCIENTIFIC BREAKTHROUGHS IN LUNG HEALTH AND DISEASE: EMPHASIS ON RNA BIOLOGY

Chair

Thomas J. Mariani, PhD. Univ of Rochester, Rochester, NY

Session C105 - CIVIC CENTER: PULMONARY VASCULAR DISEASE

514 - Cardiac Effort Provides a Reproducible Remote Assessment of 6-Minute Walk Test

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Session C101 - EXPANDING THE USE OF ASTHMA BIOLOGICS AND OTHER NOVEL THERAPEUTICS TO ADDITIONAL PATIENT POPULATIONS

623 - Comparison of Video-Coached Remote Spirometry with In-Person Spirometry in Patients with Severe Asthma Participating in the NHLBI PrecISE Network

P. Akuthota¹, A. Ivanova², T. Song², M. Castro³, J. M. Gaffin⁴, W. Phipatanakul⁵, L. B. Bacharier⁶, E. R. Bleeker⁷, S. C. Erzurum⁸, J. V. Fahy⁹, B. Gaston¹⁰, M. Kraft¹¹, E. Israel¹², W. C. Moore¹³, M. C. Peters¹⁴, S. J. Szeffler¹⁵, M. E. Wechsler¹⁶, S. E. Wenzel¹⁷, S. R. White¹⁸, J. Bach¹⁹, R. Kelley¹⁹, P. Lowell¹⁹, M. O'Brien¹⁹, D. Diaz¹, L. France²⁰, A. Pippins²¹, P. Noel²², R. J. Wright²³, **S. N. Georas**²⁴, L. C. Denlinger²⁵;

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Session D24 - SEPSIS BIOMARKERS AND OUTCOMES: WHAT CAN WE PREDICT?

903 - Elevated Plasma Nitric Oxide Consumption in Patients with Sepsis and in Sepsis Non-Survivors

L. C. Illiparambil¹, S. Mroczek¹, T. Maeda¹, C. R. Robinson², C. Dony¹, M. L. Malnoske³, A. Rovitelli¹, A. P. Pietropaoli¹;

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Session D14 - EMERGING PREDICTORS OF COPD OUTCOMES

Harnessing the Proteome in COPD to Identify Individuals Vulnerable to Frequent Exacerbations

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Session D13 - EVALUATING AND TREATING PATIENTS WITH LUNG DISORDERS

Impact of Pulmonary Function Test Race Adjustment on Clinical Outcomes: 10-Year Data Registry Analysis

M. Connolly¹, P. A. Donohue¹, R. Palli², S. Khurana¹, S. N. Georas³;

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Session D107 - SHOW US WHAT YOU'VE GOT: INTERESTING CASE REPORTS

202 - Mycobacterium Africanum Tuberculous Cervical Lymphadenitis in the United States - A Laboratory Dilemma

T. Maeda¹, P. C. Levy¹, M. J. Utell¹, A. Cameron²;

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Session L25 - THE MOLECULAR ATLAS OF LUNG DEVELOPMENT (LUNGMAP), PHASE 2

BioRepository for INvestigation of Diseases of the Lung (BRINDL): Phase II

Gloria S. Pryhuber, MD. Univ of Rochester Medical Ctr, Rochester, NY

Session D95 - A STAR IS BORN: NOVEL STEPS TO DIAGNOSE AND TREAT CONGENITAL LUNG DISORDERS

Transcriptional Characterization Suggests Accelerated Epithelial Differentiation in Trisomy 21 Lungs

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