

# ATS PI-TB HIGHLIGHTS

Your *Infectiously Good* Newsletter!



## ATS 2024 CONFERENCE

### Saturday, 5/18/2024

**8:00 AM BRONCHIECTASIS AND NTM PULMONARY DISEASE: RISK FACTORS, MANAGEMENT AND RECENT ADVANCES** PG 8

**2:00 PM PNEUMONIA IN VULNERABLE POPULATIONS IN THE AMERICAS**  
*International Participants Center, Sails pavilion, Upper Level*

### Sunday, 5/19/2024

**9:15 AM NTM WITH A SIDE OF BRONCHIECTASIS** A16

**10:00 AM INFECTION AND VACCINATION: THE CHANGING LANDSCAPES OF RESPIRATORY VIRUSES**  
*Networking Supercenter, Sails pavilion, Upper Level*

**11:30 AM REVOLUTIONIZING PNEUMONIA TREATMENT: THE PROMISING ROLE OF BACTERIOPHAGES** MTE5

**2:15 PM INFECTIONS IN THE IMMUNOSUPPRESSED AND IMMUNOCOMPROMISED HOST** A107

**2:15 PM POST-TB LUNG DISEASE: FROM GLOBAL BURDEN TO MOLECULAR MECHANISMS** A88

### 5:00 PM ATS PI-TB ASSEMBLY MEETING

*Marriott Marquis San Diego & Marina, Pacific Ballroom 24-26*

### Monday, 5/20/2024

**9:15 AM NON-ANTIBIOTIC THERAPY FOR PNEUMONIA** B10

**9:15 AM UNLOCKING NTM/BRONCHIECTASIS MYSTERIES** B26

### 10:00 AM BLACK ANGELS

*San Diego Convention Center, Sails Pavilion, Upper Level*

### 11:45 AM TEACHING COMPETITION

*Marriott Marquis San Diego & Marina, Presidio 1-2*

**12:00 PM TUBERCULOSIS RESEARCH AND PROVIDER COMMUNITY ENGAGEMENT UPDATES FROM CDC** MD23

**1:15 PM STOP TB SESSION: THERE'S NOTHING LATENT ABOUT LATENT TB**  
*International Participants Center, Sails pavilion, Upper Level*

**2:15 PM CUTTING EDGE VACCINE DEVELOPMENT FOR THE PULMONARY SUB-SPECIALTY COMMUNITY: VACCINE IMMUNOLOGY, RESEARCH, DEVELOPMENT, AND PRACTICE SOLUTIONS** B88

**2:15 PM WHAT IS NEW IN PNEUMONIA?** B96

**2:15 PM TUBERCULOSIS BREAKTHROUGHS** B106

### Tuesday, 5/21/2024

**9:15 AM NTM/BRONCHIECTASIS RAPID FIRE POSTERS** C27

**9:15 AM TRANSLATING SCIENCE IN RESPIRATORY INFECTIONS** C18

**10:00 AM VACCINES 2024: HOW CLINICIANS CAN INCREASE VACCINE ACCEPTANCE**

*Networking Supercenter, Sails pavilion, Upper Level*

### 10:30 AM BLACK ANGELS

*San Diego Convention Center, Upper Level, Room 28 A-B*

**10:30 AM ALL YOU CAN LEARN: IMMUNIZATION FOR PATIENTS WITH RESPIRATORY PROBLEM** MTE30

**2:15 PM HIV-RELATED LUNG DISEASE: UPDATES IN PATHOPHYSIOLOGY, CLINICAL TRIALS AND FUTURE DIRECTIONS** C89

**2:15 PM MICROBIAL RESPIRATORY INFECTIONS DISCOVERIES** C107

**3:00 PM THE NEW FACE OF CYSTIC FIBROSIS**

*International Participants Center, Sails pavilion, Upper Level*

### Wednesday, 5/22/2024

**8:15 AM GENETICS AND BRONCHIECTASIS - ADVANCES IN CYSTIC FIBROSIS AND PRIMARY CILIARY DYSKINESIA** D16

**11:00 AM THE BEST OF RESPIRATORY INFECTIONS CASE REPORTS** D107

**8:15 AM WHAT'S HOT IN TUBERCULOSIS?** D17

**11:00 AM EMERGENT RESISTANCE TO NEW DRUGS FOR MDR-TB TREATMENT** D84

## PINE SERIES

**7/17/2024 2:00 PM TUBERCULOSIS: AN UNEXPECTED TWIST**  
*Virtual; link to follow soon*

## *Dear Colleagues,*

We are thrilled to introduce you to the first edition of our newsletter, the **ATS PI-TB Highlights!** In this periodical newsletter, we will share with you a calendar of upcoming events, updates about the PI-TB work, relevant articles, and other PI-TB Assembly news. We hope you enjoy this first edition!

For the PI-TB Web Committee,

*Eva Otoupalova and Amjad Kanj*

## UPDATES FROM THE ASSEMBLY

### **Pneumonia Advisory Working Group**

#### **Charles Dela Cruz and Scott Evans, Co-Chairs**

"The PI-TB Pneumonia Working Group is comprised of Assembly members with expertise in a wide range of pneumonia-related areas. Over the past few years, our featured topical focus has been immunocompromised host pneumonias. However, we have always maintained activities addressing guideline development, patient advocacy, legislative engagement and research support targeting a wide range of acute lower respiratory tract infections, including community acquired pneumonia, hospital acquired/ventilator-associated pneumonia, and fungal pneumonia. Most recently, we have organized two ATS webinar collaboration with our international society partners: Joint ATS – Philippine College of Chest Physician (PCCP) Webinar on Lung Infection (March 14, 2024) – **"Preventive or adjunctive strategies in the management of mechanically ventilated patients with Severe Community Acquired Pneumonia"**, and a joint ATS-Asociación Latinoamericana de Tórax (ALAT) Webinar focused on **"How to deal with MDR organisms in limited resources settings** (March 28, 2024)."

### **Science and Innovation Center Working Group**

#### **Shenoy Anukul, Chair**

"I would like to encourage PI-TB members to check out the [Science and Innovation Center \(SIC\)](#) where our own assembly chair Dr. Charles Dela Cruz will lead a session titled **"Infection and Vaccination: The changing landscape of respiratory viruses"** on **Sunday, May 19th, 2024 at 10-11am at the ATS 2024 International Conference!** The SIC is a central venue for basic and translational scientists to network and learn about emerging technologies, and this is also where the SIC abstract awardees and Assembly rising star awardees are presented to our community! Please come by to support our PI-TB colleagues and trainee scientists who are the future leaders in our field."

### **Early Career Working Group**

#### **Ashley Losier and Kelly Pennington, Co-Chairs**

"The PITB early career working group remains active and meeting every other month for their scheduled meetings. The group is active in organizing multiple early career events and programs for the assembly including the mentor-mentee program, the teaching competition, and apprenticeship programs. The **Mentor-mentee Program** remains part of the ATS mission to connect early to mid-career members with more senior members within their respective assemblies to promote opportunities for career development and networking. Applications have recently closed, and matching will be announced prior to the upcoming conference. The **Teaching Competition** is a multi-assembly event for early career members to showcase their teaching. Each year, members of the assembly can apply to get selected to represent their assembly at the ATS conference. Last year at the 2023 conference in Washington DC, John Huston MD from Yale University represented the PITB assembly at the ATS finals. **Stay tuned for more details on this year's teaching competition at ATS!**"



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## EARLY CAREER PROFESSIONAL HIGHLIGHTS

**Kelly M. Pennington, MD**  
Mayo Clinic



**Interests:** Health services and database research, opportunistic infections in lung transplant

**Favorite pathogen:**

"I'd pick *Penicillium*. Why? Always around, hardly ever causing a fuss, and it's got a secret superpower, *Penicillin!*"

**Ashley Losier, MD**  
Yale School of Medicine



**Interests:** Bronchiectasis, chronic pulmonary infections, acute respiratory failure and pneumonia

**Favorite pandemic hobby:**

"Zoom trivia with friends!"

**Jerry Zifodya, MD**  
Tulane University School of Medicine



**Interests:** Long-term pulmonary complications of tuberculosis and HIV

**Favorite pathogen:**

"I would choose to be *M. tuberculosis*. As far as pathogens go, it's pretty successful and therefore quite deadly."

**Eva Otoupalova, MD**  
University of Virginia



**Interests:** Role of B-cells in tuberculosis, critical care in resource limited settings

**Favorite pandemic hobby:** "Kayaking with my husband and our dog!"

## PI-TB JOURNAL CLUB

### **Molecular Mechanisms of Lung Infection**

[Redox-Dependent Activation of Lung Epithelial STAT3 Is Required for Inducible Protection against Bacterial Pneumonia](#) Kulkarni et al.

[LungMAP Portal Ecosystem: Systems-level Exploration of the Lung](#) Gaddis et al.

[Interstitial Macrophages Mediate Efferocytosis of Alveolar Epithelium during Influenza Infection](#) Zuttion et al.

### **Pneumonia**

[Routine Metagenomics Service for ICU Patients with Respiratory Infection](#) Charalampous et al.

[Antimicrobial Drug Penetration Is Enhanced by Lung Tissue Inflammation and Injury](#) Johannes Geilen et al.

### **Covid-19**

[SARS-CoV-2 Viral Replication Persists in the Human Lung for Several Weeks after Symptom Onset](#) Tomasicchio et al.

[RAGE Is a Receptor for SARS-CoV-2 N Protein and Mediates N Protein-induced Acute Lung Injury](#) Xia et al.

[Meta-Analysis of COVID-19 BAL Single-Cell RNA Sequencing Reveals Alveolar Epithelial Transitions and Unique Alveolar Epithelial Cell Fates](#) Karmaus et al.

[Host Response Changes and Their Association with Mortality in COVID-19 Patients with Lymphopenia](#) Michels et al.

[Airway Basal Stem Cells in COVID-19 Exhibit a Proinflammatory Signature and Impaired Mucociliary Differentiation](#) Bankoti et al.

### **Cystic Fibrosis and Non-CF Bronchiectasis**

[Proximal and Distal Bronchioles Contribute to the Pathogenesis of Non-Cystic Fibrosis Bronchiectasis](#). Asakura et al.

[Effect of COVID-19 on Bronchiectasis Exacerbation Rates: A Retrospective U.S. Insurance Claims Study](#) Åstrand et al.

[Elexacaftor/Tezacaftor/Ivacaftor Treatment and Depression-related Events](#). Ramsey et al.

[Prevalence and Clinical Impact of Respiratory Viral Infections from the STOP2 Study of Cystic Fibrosis Pulmonary Exacerbations](#). Thornton et al.

[Cardiopulmonary Exercise Testing Provides Prognostic Information in Advanced Cystic Fibrosis Lung Disease](#). Radtke et al.

### **Tuberculosis and Non-Tuberculous Mycobacteria**

[Early Microbiologic Markers of Pulmonary Tuberculosis Treatment Outcomes](#). Paradkar et al.

[OPTIMA: An Open-Label, Noncomparative Pilot Trial of Inhaled Molgramostim in Pulmonary Nontuberculous Mycobacterial Infection](#). Thomson et al.

[Post-treatment Radiographic Severity and Mortality in Mycobacterium avium Complex Pulmonary Disease](#) Kim et al.

