



## **CURRICULUM VITAE**

**Scott E. Evans, M.D., F.C.C.P.**

### **PRESENT TITLE AND AFFILIATION**

#### **Primary Appointment**

Associate Professor, Department of Pulmonary Medicine, Division of Internal Medicine, The University of Texas MD Anderson Cancer Center, Houston, TX

#### **Dual/Joint/Adjunct Appointment**

Adjunct Faculty, Institute of Biosciences and Technology, Texas A&M University, Houston, TX

Adjunct Professor, School of Medicine, Tecnologico de Monterrey, Monterrey, Nuevo Leon, Mexico

Regular Faculty Member, Program in Immunology, The University of Texas Graduate School of Biomedical Sciences, Houston, TX

Regular Faculty Member, Program in Biochemistry and Cell Biology, The University of Texas Graduate School of Biomedical Sciences, Houston, TX

### **OFFICE ADDRESS**

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### **EDUCATION**

#### **Degree-Granting Education**

University of Texas, Austin, TX, BA, 1994, Plan II Honors Program

University of Texas Medical School, San Antonio, TX, MD, 1999, Medicine

#### **Postgraduate Training**

Clinical Internship and Residency, Internal Medicine, Mayo Graduate School of Medicine, Rochester, MN, Henry J Schultz, MD, 6/1999-6/2002

Clinician-Investigator Research Training Program, Mayo Graduate School of Medicine, Rochester, MN, Andrew H Limper, MD, 1/2002-4/2004

Clinical Fellowship, Pulmonary & Critical Care Medicine, Mayo Graduate School of Medicine, Rochester, MN, Ulrich Specks, MD, 6/2002-9/2005

Administrative (Chief) Fellow, Pulmonary Medicine, Mayo Graduate School of Medicine, Rochester, MN, Ulrich Specks, MD, 7/2004-9/2005

### **CREDENTIALS**

#### **Board Certification**

Internal Medicine, American Board of Internal Medicine, 2002-2024, Recertification Date: 2014

Pulmonary Medicine, American Board of Internal Medicine, 2005-2025, Recertification Date: 2015

Critical Care Medicine, American Board of Internal Medicine, 2006-2016

## **Licensures**

### **Active**

TX, M1662, 9/2005-11/2018

### **Inactive**

MN, 43140, 11/2002-11/2005

AZ, 26465, 11/2002-3/2003

## **EXPERIENCE/SERVICE**

### **Academic Appointments**

Instructor, Mayo Clinic College of Medicine, Rochester, MN, 2001-2005

Assistant Professor, Medicine, Mayo Clinic College of Medicine, Rochester, MN, 2005

Assistant Professor, Department of Critical Care, Division of Anesthesiology and Critical Care, The University of Texas MD Anderson Cancer Center, Houston, TX, 2005-2009

Assistant Professor, Department of Pulmonary Medicine, Division of Internal Medicine, The University of Texas MD Anderson Cancer Center, Houston, TX, 2005-2013

Adjunct Faculty, Institute of Biosciences and Technology, Texas A&M University, Houston, TX, 2006-present

Adjunct Professor, School of Medicine, Tecnologico de Monterrey, Monterrey, Nuevo Leon, Mexico, 2007-present

Regular Faculty Member, Program in Immunology, The University of Texas Graduate School of Biomedical Sciences, Houston, TX, 2009-present

Graduate Faculty, Texas A&M Health Science Center School of Graduate Studies, College Station, TX, 2010-2015

Associate Professor, Department of Pulmonary Medicine, Division of Internal Medicine, The University of Texas MD Anderson Cancer Center, Houston, TX, 2013-present

Regular Faculty Member, Program in Biochemistry and Cell Biology, The University of Texas Graduate School of Biomedical Sciences, Houston, TX, 2017-present

### **Administrative Appointments/Responsibilities**

Medical Director, Pulmonary Function Laboratory, The University of Texas MD Anderson Cancer Center, Houston, TX, 2005-2010

Director of Basic and Translational Research, Department of Pulmonary Medicine, Division of Internal Medicine, University of Texas MD Anderson Cancer Center, Houston, TX, 2019-present

### **Other Appointments/Responsibilities**

Faculty, MD Anderson Medical Mycology Research Center, Houston, TX, 2018-present

Immunology Admissions Subcommittee, University of Texas MD Anderson UTHealth GSBS Program in Immunology, Houston, TX, 2018-present

### **Endowed Positions**

N/A

### **Consultantships**

Bayer Institute for Health Care Communications, New Haven, CT, Advisor, 1998

Genentech, San Francisco, California, Advisory Board, 2007

### **Military or Other Governmental Service**

N/A

### **Institutional Committee Activities**

Medical Dean's Class Presidents Committee, Member, University of Texas Medical School at San Antonio, 1996-1999

Admissions Committee, Member, University of Texas Medical School at San Antonio, 1998-1999

Research Committee, Member, Division of Pulmonary & Critical Care Medicine, Mayo Clinic, 2002-2005

Education Committee, Member, Division of Pulmonary & Critical Care Medicine, Mayo Clinic, 2004-2005

Hospital Practice Committee, Fellow Representative, Division of Pulmonary & Critical Care Medicine, Mayo Clinic, 2004-2005

Research Committee, Member, Division of Internal Medicine, The University of Texas MD Anderson Cancer Center, 2005-2008

Biomarker Development Subcommittee, Member, Division of Internal Medicine, The University of Texas MD Anderson Cancer Center, 2006-2007

Faculty Senate, Member, The University of Texas MD Anderson Cancer Center, 2006-2009

Pneumonia Working Group, Member, The University of Texas MD Anderson Cancer Center, 2006-present

Planning Committee, Conference for Bronchoscopic Techniques in Interventional Pulmonary Oncology Conference, The University of Texas MD Anderson Cancer Center, 2007-present

Institutional Infection Control Committee, Member, The University of Texas MD Anderson Cancer Center, 2008-present

Physician-Scientist Task Force, Member, 2014-2016

Physician-Scientist Program Advisory Committee, Member, 2014-present

University of Texas GSBS Program in Immunology, Advisory Committee, 2016-2018

Multidisciplinary Research Program Committee, Member, 2018-present

## **HONORS AND AWARDS**

National Merit/Interlogic Trace Scholar, 1990-1994

Terry Foundation Scholar, 1990-1994

Theta Award for Academic Excellence, University of Texas at Austin, 1992

Order of Omega Academic Honor Society, 1993

Certificate of Excellence for Outstanding Service, Texas State Senate, 1996

National Achievement Award, American Medical Association/GlaxoWellcome, 1997

University of Texas Medical School Alumni Scholarship (first three-time recipient), 1997, 1998, 1999

Alpha Omega Alpha Honor Medical Society, 1998

Holt Leadership Award, University of Texas Medical School, 1999

Travel Award, 4th Annual International LAM Research Conference, NHLBI/LAM Foundation, 2001

Graduation Rank #1, Mayo Internal Medicine Residency Program, 2002

Outstanding Achievement Award, Mayo Internal Medicine Residency Program, 2002

Trainee Travel Award, Clinical Research, American Federation for Medical Research, 2002

Travel Award, Combined Annual Meeting, Central Society for Clinical Research, 2002

Young Investigator Endowed Fellowship, Hartz Foundation, 2002

Scholar Award, GlaxoSmithKline, 2003

Second Place, National CHEST Challenge, American College of Chest Physicians, 2003

Trainee Travel Award, Clinical Research, American Federation for Medical Research, 2003

Trainee Travel Award, Experimental Biology, Federation of American Societies for Experimental Biology, 2003

Young Investigator Award, ACCP Chest Foundation, 2003  
Burgher Family Endowed Pulmonary Fellowship Award, 2004  
Travel Grant, American Thoracic Society, 2005  
Best Poster: Basic Science-Diagnostics, The University of Texas MD Anderson Cancer Center Division of Internal Medicine Retreat, 2007  
Best Poster: Clinical-Prevention, The University of Texas MD Anderson Cancer Center Division of Internal Medicine Retreat, 2007  
Career Development Award, University of Texas Centers for Clinical and Translational Science, 2007  
NIH Loan Repayment Program Award, Clinical Research, 2007, 2009  
Best Abstract, The University of Texas MD Anderson Cancer Center Division of Internal Medicine Research Retreat, 2008  
Charles E. Culpeper Scholarship in Medical Science, Partnership for Cures/Culpeper Foundation, 2008  
Fellow, American College of Chest Physicians, 2008  
Physician-Scientist Award, The University of Texas MD Anderson Cancer Center, 2008  
Cyrus Scholar Award, Cyrus Family Foundation, 2010, 2014, 2019  
Distinguished Paper Award, The University of Texas MD Anderson Division of Internal Medicine, 2013  
NIH Director's New Innovator Award, NIH Office of the Director, 2013  
Presidential Recognition for Faculty Excellence, The University of Texas MD Anderson Cancer Center, 2014  
Pulmonary Infection and Tuberculosis Assembly Mid-Career Peer Recognition Award, American Thoracic Society, 2016

## **RESEARCH**

### **Grants and Contracts**

#### **Funded**

Principal Investigator, Faculty Retention Funds, University of Texas MD Anderson Cancer Center, Office of the Provost, 1/1/2017-12/31/2021, \$500,000 (\$100,000/year)

Principal Investigator, 35%, Epithelial mechanisms of inducible resistance to AML-associated pneumonia, R01HL117976, NIH/NHLBI, 1/1/2019-8/21/2023, \$1,250,000 (\$250,000/year)

Principal Investigator, 60%, Inducible epithelial resistance: a program investigating mechanisms to protect against acute and chronic complications of pneumonia, R35HL144805, NIH/NHLBI, 2/1/2019-1/31/2026, \$4,200,000 (\$600,000/year)

#### **Pending**

Principal Investigator-MDACC, 5%, Countermeasure for influenza: a molecularly engineered lectin, NIH/NIAID, PI - David Markovitz, 1/1/2019-12/31/2023, \$1,250,000 (\$250,000/year)

Principal Investigator-MDACC, 1%, Inhaled therapy with an innate immune modulator to prevent or treat allergic asthma, NIH/NIAID, PI - Brenton Scott, 4/1/2019-3/30/2020, \$200,000 (\$200,000/year)

#### **Completed**

Collaborator, Expanding the market and success rates for myeloablative cancer treatments using PUL-042, an innate immune stimulant, CP120014, Cancer Prevention & Research Institute of Texas (CPRIT), PI - Brenton Scott, 6/1/2012-5/30/2015, \$7,126,398 (\$2,375,466/year)

Principal Investigator, 40%, Inducible epithelial antiviral resistance to prevent asthma, DP2 HL123229, NIH/NHLBI, 10/1/2013-9/30/2018, \$1,500,000 (\$300,000/year)

Principal Investigator, Cyrus Scholar Award, The Cyrus Family Foundation, 11/1/2013-10/31/2016, \$15,000 (\$5,000/year)

Principal Investigator, 40%, Epithelial mechanisms of inducible resistance to AML-associated pneumonia, R01 HL117976, NIH/NHLBI, 1/1/2014-12/31/2018, \$1,250,000 (\$250,000/year)

**Not Funded**

N/A

**Protocols**

**Funded**

Collaborator, Phase 2 study of inhaled lipid cisplatin in pulmonary recurrent osteosarcoma, 2012-0901, PI - Subbiah, Vivek, 2012-2013, Eleison Pharmaceuticals, Inc.

Collaborator, Phase I study of aerosol gemcitabine in patients with solid tumors and pulmonary metastases, 2015-0720, PI - Daw, Najat, 2015-present, Archer Foundation

Collaborator, A Phase Ib, open label, multicenter study of the safety and efficacy of MIW815 (ADU-S100) administered by intratumoral injection with PDR001 to patients with advanced/metastatic solid tumors or lymphomas, 2017-0308, PI - Funda Meric-Bernstam, 2017-present, Novartis Pharmaceuticals

Collaborator, A pivotal multi-center, randomized, controlled, single-blinded Study comparing the silver nitrate-coated indwelling pleural catheter (SNCIPC) to the uncoated PleurX pleural catheter for the management of symptomatic, recurrent, malignant pleural effusions, 2016-0915, PI - Carlos Jimenez, 2017-present, CareFusion, Inc.

**Unfunded**

Principal Investigator, Pulmonary Medicine protocol for the collection of residual bodily fluids from bronchoalveolar lavage performed in the Cardiopulmonary Center on new and returning patients, Lab06-0559, 2006-2010

Collaborator, Retrospective chart review of the utility of bronchoalveolar lavage in HSCT patients, RCR06-1062, PI - Vickie Shannon, 2007-2009

Collaborator, The collection of residual pleural fluid from pleural procedures performed by pulmonologists at UTMDACC, LAB06-1045, PI - Carlos Jimenez, 2007-2015

Collaborator, Causes and prognosis of pleural effusions in hematologic malignancies, DR07-0748, PI - Saadia Faiz, 2007-present

Collaborator, Registry of patients undergoing endobronchial ultrasound, PCR07-0023, PI - George Eapen, 2007-present

Collaborator, Six-minute walk test in the evaluation of patients at high risk for complications for lung resection, 2006-1061, PI - Carlos Jimenez, 2007-present

Collaborator, Randomized study of early treatment with inhaled corticosteroids versus observation for patients who have decreased lung function status post allogeneic stem cell transplantation, 2007-0390, PI - Lara Bashoura, 2008-2010

Principal Investigator, Pulmonary Medicine protocol to establish the diagnostic yield of bronchoalveolar lavage for infection using a standardized sample collection technique, DR09-0545, 2008-2011

Collaborator, Identification of infecting organisms in patients with solid tumor and hematologic malignancies diagnosed with pneumonia in the MDACC Emergency Center, DR08-0082, PI - Carmen Gonzalez, 2008-2012

Collaborator, Effectiveness of daily vs. three times a week drainage after placement of intrapleural catheters for the palliative management of pleural effusions associated with malignancies, 2007-0808, PI - Carlos Jimenez, 2008-present

Collaborator, The efficacy of pulmonary rehabilitation in improving surgical eligibility for lung resection, 2007-0063, PI - Vickie Shannon, 2008-present

Collaborator, Vibration response imaging (VRI) in patients who are candidates for undergoing surgical resection due to lung cancer or other intrathoracic malignancy, 2006-0668, PI - Rodolfo Morice, 2009

Collaborator, Diagnosis of lung cancer using FISH based assays in blood and induced sputum, 2009-0667, PI - Carlos Jimenez, 2009-2012

Principal Investigator, Pulmonary Medicine protocol to determine whether bronchoalveolar lavage-collected host cell gene expression patterns can inform clinicians of infectious causes of pneumonia, LAB09-0942, 2009-2012

Collaborator, An audit of large-volume therapeutic thoracentesis (TT) at the Department of Pulmonary Medicine at MDACC, DR09-0666, PI - Carlos Jimenez, 2009-present

Collaborator, An international multi-center interventional and diagnostic bronchoscopy registry, DR09-0101, PI - David Ost, 2009-present

Collaborator, Registry of patients who have an indwelling pleural catheters placed at MDACC, DR07-0389, PI - Carlos Jimenez, 2011-2012

Co-Principal Investigator, Epidemiologic features of pneumonia during induction chemotherapy for the treatment of acute leukemia or high risk myelodysplastic syndrome, PA12-0263, PI - David Ost, 2012-present

Co-Principal Investigator, Phase I/II study of aerosol interleukin-2 for pulmonary metastases, 2010-0700, PI - Daw, Najat, 2012-present

Collaborator, A double blind randomized controlled trial of indwelling pleural catheters versus indwelling pleural catheters plus doxycycline pleurodesis for treatment of malignant pleural effusions, 2015-0142, PI - Ost, David, 2016-present

Collaborator, A prospective observational cohort study of indwelling pleural catheters versus indwelling pleural catheters plus doxycycline pleurodesis for treatment of malignant pleural effusions, 2017-0973, PI - David Ost, 2018-present

## **Patents and Technology Licenses**

### **Patents**

University of Texas System/Texas A&M University System, BF Dickey, MJ Tuvim, SE Evans. Compositions for Stimulation of Mammalian Innate Immune Resistance to Pathogens, Mexico, 309121, Issued

University of Texas System/Texas A&M University System, BF Dickey, MJ Tuvim, SE Evans. Compositions for Stimulation of Mammalian Innate Immune Resistance to Pathogens, South Africa, 2011/07774, Issued

University of Texas System/Texas A&M University System, BF Dickey, MJ Tuvim, SE Evans. Compositions for Stimulation of Mammalian Innate Immune Resistance to Pathogens, 10716433.7, Issued

University of Texas System/Texas A&M University System, BF Dickey, MJ Tuvim, SE Evans. Compositions for Stimulation of Mammalian Innate Immune Resistance to Pathogens, Korea, Republic of, 10-2011-7025110, Issued

University of Texas System/Texas A&M University System, BF Dickey, MJ Tuvim, SE Evans. Compositions for Stimulation of Mammalian Innate Immune Resistance to Pathogens, Japan, 2012-502246, Issued

University of Texas System/Texas A&M University System, Compositions for Stimulation of Mammalian Innate Immune Resistance to Pathogens, Israel, 215288, Issued

University of Texas System/Texas A&M University System, BF Dickey, MJ Tuvim, SE Evans. Compositions for Stimulation of Mammalian Innate Immune Resistance to Pathogen, United States, 8,883,174, 10/23/2014, Issued

University of Texas System/Texas A&M University System, DF Bickey, MJ Tuvim, SE Evans. Compositions for Stimulation of Mammalian Innate Immune Resistance to Pathogens, 10716433.7, Issued

University of Texas System/Texas A&M University System, BF Dickey, MJ Tuvim, SE Evans. Compositions for Stimulation of Mammalian Innate Immune Resistance to Pathogens, China, 201080022634.7, Issued

University of Texas System/Texas A&M University System, BF Dickey, MJ Tuvim, SE Evans. Compositions for Stimulation of Mammalian Innate Immune Resistance to Pathogens, Australia, 2010229835, Issued

University of Texas System/Texas A&M University System, BF Dickey, SE Evans, BE Gilbert, D Markesich, BD Scott, MJ Tuvim. Compositions and Methods for Treating Viral Infections Through Stimulated Innate Immunity in Combination with Antiviral Compounds, United States, 62/053,610, 10/23/2014, Filed

University of Texas System/Texas A&M University System, BF Dickey, MJ Tuvim, SE Evans. Compositions for Stimulation of Mammalian Innate Immune Resistance to Pathogens, United Arab Emirates, P935/11, Filed

University of Texas System/Texas A&M University System, BF Dickey, MJ Tuvim, SE Evans. Compositions for Stimulation of Mammalian Innate Immune Resistance to Pathogens, Brazil, PI1009842.9, Filed

University of Texas System/Texas A&M University System, BF Dickey, MJ Tuvim, SE Evans. Compositions for Stimulation of Mammalian Innate Immune Resistance to Pathogens, Canada, 2,756,412, Filed

University of Texas System/Texas A&M University System, BF Dickey, MJ Tuvim, SE Evans. Compositions for Stimulation of Mammalian Innate Immune Resistance to Pathogens, India, 8072/DELNP/2011, Filed

University of Texas System, Hook M, Zhang D, Gendron C, Dickey BF, Tuvim MJ, Evans SE. Methods and Compositions for Stimulation of Mammalian Innate Immune System Resistance to Pathogens, PCT/US2009/05652, 9/10/2009, Pending

University of Texas System, Dickey BF, Tuvim MJ, Evans SE. Methods and Compositions Related to Small Molecule Ligands for Stimulation of Mammalian Innate Immune Resistance to Pathogens, PCT/US2010/02865, 3/25/2010, Pending

University of Texas System/Texas A&M University, Hook M, Zhang D, Gendron C, Dickey BF, Tuvim MJ, Evans SE. Method for Identifying Bacterial Components That Modulate the Mammalian Innate Immune System and Prevent Lung Infections, United States, 12/556,759, 9/10/2009, Abandoned

University of Texas System/Texas A&M University, Hook M, Zhang D, Gendron C, Dickey BF, Tuvim MJ, Evans SE. Identification of Compounds That Stimulate Mammalian Innate Immune Resistance to Pathogens and Uses Thereof, United States, 61/191,570, 9/10/2008-9/10/2011, Expired

University of Texas System/Texas A&M University, Hook M, Zhang D, Gendron C, Dickey BF, Tuvim MJ, Evans SE. Methods and Composition for Stimulation of Mammalian Innate Immune System Resistance to Pathogens, United States, 61/156,254, 2/27/2009-2/27/2011, Expired

University of Texas System, Dickey BF, Tuvim MJ, Evans SE. Methods and Compositions Related to Small Molecule Ligands for Stimulation of Mammalian Innate Immune Resistance to Pathogens, United States, 61/163,137, 3/25/2009-9/25/2011, Expired

#### **Technology Licenses**

N/A

#### **Grant Reviewer/Service on Study Sections**

Texas and Western Region Consortium, American Heart Association, Reviewer, 2007-2010

NIH Early Career Reviewer, NIH, Ad Hoc Member, 2013-2015  
Pulmonary-Allergy Drugs Advisory Committee, FDA, Ad Hoc Member, 2014-2019  
Defense Threat Reduction Agency, DOD, Ad Hoc Member, 2014-present  
Discovery Award Program, UTHealth Pulmonary Center of Excellence, Member, 2015-present  
Lung Cellular, Molecular and Immunobiology Section (LCMI), NIH, Ad Hoc Member, 2016-2019  
Physiology and Pathobiology of Cardiovascular and Respiratory Systems (F10A), NIH, Ad Hoc Member, 2017-present  
Antimicrobial Drugs Advisory Committee, FDA, Ad Hoc Member, 2018-present  
Basic Research on E-Cigarette Physiology and Pathophysiology (ZHL1), NIH, Ad Hoc Member, 2018-present  
Lung Cellular, Molecular and Immunobiology Section (LCMI), NIH, Member, 2019-present  
Pulmonary-Allergy Drugs Advisory Committee, FDA, Member, 2019-present

## PUBLICATIONS

### Peer-Reviewed Original Research Articles

1. Hahn PY, Evans SE (Co-First Author), Kottom TJ, Standing JE, Pagano RE, Limper AH. Pneumocystis carinii cell wall  $\beta$ -glucan induces release of macrophage inflammatory protein-2 from alveolar epithelial cells via a lactosylceramide-mediated mechanism. *J Biol Chem* 278(3):2043-50, 1/2003. PMID: PMCPMID12419803.
2. Limper AH, Lebron F, Evans SE, Hahn RY. Pneumocystis carinii: cell wall  $\beta$ -glucan-mediated pulmonary inflammation. *J Eukaryot Microbiol* 50 Suppl:646, 2003. PMID: PMCPMID14736200.
3. Evans SE, Colby TV, Ryu JH, Limper AH. Transforming growth factor- $\beta$ 1 and extracellular matrix-associated fibronectin expression in pulmonary lymphangioliomyomatosis. *Chest* 125(3):1063-70, 3/2004. PMID: PMCPMID15006970.
4. Gilman G, Evans SE, Hansen WH, Barnes ME, Klarich KW. Evaluation of right pulmonary artery obstruction by echocardiography in a 32-year-old woman with suggested histoplasmosis. *J Am Soc Echocardiogr* 18(5):490-1, 5/2005. PMID: PMCPMID15891762.
5. Evans SE, Hahn PY, McCann F, Kottom TJ, Pavlovic' ZV, Limper AH. (Cover Article) Pneumocystis cell wall  $\beta$ -glucans stimulate alveolar epithelial cell chemokine generation through nuclear factor- $\kappa$ B-dependent mechanisms. *Am J Respir Cell Mol Biol* 32(6):490-7, 6/2005. e-Pub 3/2005. PMID: PMC2715319.
6. Clement CG, Evans SE (Co-First Author), Evans CM, Hawke D, Kobayashi R, Reynolds PR, Moghaddam SJ, Scott BL, Melicoff E, Adachi R, Dickey BF, Tuvim MJ. Stimulation of lung innate immunity protects against lethal pneumococcal pneumonia in mice. *Am J Respir Crit Care Med* 177(12):1322-30, 6/2008. e-Pub 4/2008. PMID: PMC2427056.
7. Clement CG, Tuvim MJ, Evans CM, Tuvim DM, Dickey BF, Evans SE. Allergic lung inflammation alters neither susceptibility to Streptococcus pneumoniae infection nor inducibility of innate resistance in mice. *Respir Res* 10(10):70, 2009. PMID: PMC2724420.
8. Tuvim MJ, Evans SE (Co-First Author), Clement CG, Dickey BF, Gilbert BE. Augmented lung inflammation protects against influenza A pneumonia. *PLoS One* 4(1):e4176, 2009. e-Pub 1/2009. PMID: PMC2613561.
9. Evans SE, Scott BL, Clement CG, Larson DT, Kontoyiannis D, Lewis RE, Lasala PR, Pawlik J, Peterson JW, Chopra AK, Klimpel G, Bowden G, Höök M, Xu Y, Tuvim MJ, Dickey BF. Stimulated innate resistance of lung epithelium protects mice broadly against bacteria and fungi. *Am J Respir Cell Mol Biol* 42(1):40-50, 1/2010. e-Pub 3/2009. PMID: PMC2809220.
10. Evans SE, Tuvim MJ, Zhang J, Larson DT, Garcia CD, Martinez Pro S, Coombes KR, Dickey BF. Host lung gene expression patterns predict infectious etiology in a mouse model of pneumonia. *Respir Res* 11(1):101. e-Pub 7/2010. PMID: PMCPMC2914038.
11. Evans SE, Leventakos K, Ben-Ami R, You D, Thakkar SG, Lewis RE, Kontoyiannis DP. Toll-deficient Drosophila are resistant to infection by Pneumocystis spp.: additional evidence of specificity to mammalian hosts. *Virulence* 1(6). e-Pub 11/2010. PMID: PMCPMID21178507.



12. Ochoa CE, Mirabolfathinejad SG, Ruiz VA, Evans SE, Gagea M, Evans CM, Dickey BF, Moghaddam SJ. Interleukin 6 but not T helper 2 cytokines promotes lung carcinogenesis. *Cancer Prev Res (Phila)* 4(1):51-64, 1/2011. e-Pub 11/2010. PMID: PMC3058282.
13. Evans SE, Tuvim MJ, Fox CJ, Sachdev N, Gibiansky L, Dickey BF. Inhaled innate immune ligands to prevent pneumonia. *Br J Pharmacol* 163(1):195-206, 5/2011. e-Pub 1/2011. PMID: PMC3085878.
14. Duggan JM, You D, Cleaver JO, Larson DT, Garza RJ, Guzmán Pruneda FA, Tuvim MJ, Zhang J, Dickey BF, Evans SE. Synergistic interactions of TLR2/6 and TLR9 induce a high level of resistance to lung infection in mice. *J Immunol* 186(10):5916-26, 5/2011. e-Pub 4/2011. PMID: PMC3654378.
15. Sampsonas F, Kontoyiannis DP, Dickey BF, Evans SE. Performance of a standardized bronchoalveolar lavage protocol in a comprehensive cancer center: A prospective 2-year study. *Cancer* 117(15):3424-33, 8/2011. e-Pub 1/2011. PMID: PMC3457647.
16. Evans SE, Kottom TJ, Pagano RE, Limper AH. Primary alveolar epithelial cell surface membrane microdomain function is required for *Pneumocystis*  $\beta$ -glucan-induced inflammatory responses. *Innate Immun* 18(5):709-16, 10/2012. e-Pub 2/2012. PMID: PMC3645441.
17. Tuvim MJ, Gilbert BE, Dickey BF, Evans SE. Synergistic TLR2/6 and TLR9 activation protects mice against lethal influenza pneumonia (\*\*\*Top 10% most cited papers for this journal\*\*\*). *PLoS One* 7(1):e30596, 2012. e-Pub 1/2012. PMID: PMC3267724.
18. Drake MG, Evans SE, Dickey BF, Fryer AD, Jacoby DB. TLR2/6 and TLR9 agonists suppress viral replication but not airway hyperreactivity in guinea pigs. *Am J Respir Cell Mol Biol* 48(6):790-6, 6/2013. e-Pub 2/2013. PMID: PMC3727870.
19. Tuvim MJ, Clement CG, Huang ES, Cote GJ, Evans SE, Lei X, Deftos LJ, Gagel RF, Dickey BF. Deletion of the gene encoding calcitonin and CGRP $\alpha$  does not affect the outcome of severe infection in mice. *Am J Respir Cell Mol Biol* 49(1):151-5, 7/2013. e-Pub 3/2013. PMID: PMC3727888.
20. Garcia JB, Lei X, Wierda W, Cortes JE, Dickey BF, Evans SE, Ost DE. Pneumonia during remission induction chemotherapy in patients with acute leukemia. *Ann Am Thorac Soc* 10(5):432-40, 10/2013. e-Pub 8/2013. PMID: PMC3960911.
21. Cleaver JO, You D, Michaud DR, Pruneda FA, Juarez MM, Zhang J, Weill PM, Adachi R, Gong L, Moghaddam SJ, Poynter ME, Tuvim MJ, Evans SE. Lung epithelial cells are essential effectors of inducible resistance to pneumonia. *Mucosal Immunol* 7(1):78-88, 1/2014. e-Pub 5/2013. PMID: PMC3735803.
22. Roy MG, Livraghi-Butrico A, Fletcher AA, McElwee MM, Evans SE, Boerner RM, Alexander SN, Bellinghausen LK, Song AS, Petrova YM, Tuvim MJ, Adachi R, Romo I, Bordt AS, Bowden MG, Sisson JH, Woodruff PG, Thornton DJ, Rousseau K, De la Garza MM, Moghaddam SJ, Karmouty-Quintana H, Blackburn MR, Drouin SM, Davis CW, Terrell KA, Grubb BR, O'Neal WK, Flores SC, Cota-Gomez A, Lozupone CA, Donnelly JM, Watson AM, Hennessy CE, Keith RC, Yang IV, Barthel L, Henson PM, Janssen WJ, Schwartz DA, Boucher RC, Dickey BF, Evans CM. Muc5b is required for airway defence. *Nature* 505(7483):412-6, 1/2014. e-Pub 12/2013. PMID: PMC4001806.
23. Gonzalez C, Johnson T, Rolston K, Merriman K, Warneke C, Evans S. Predicting pneumonia mortality using CURB-65, PSI, and patient characteristics in patients presenting to the emergency department of a comprehensive cancer center. *Cancer Med* 3(4):962-70, 8/2014. e-Pub 5/2014. PMID: PMC4303164.
24. Alfaro VY, Goldblatt DL, Valverde GR, Munsell MF, Quinton LJ, Walker AK, Dantzer R, Varadhachary A, Scott BL, Evans SE, Tuvim MJ, Dickey BF. Safety, tolerability, and biomarkers of the treatment of mice with aerosolized toll-like receptor ligands. *Front Pharmacol* 5:8, 2014. e-Pub 2/2014. PMID: PMC3915096.
25. Xia X, Mai J, Xu R, Perez JE, Guevara ML, Shen Q, Mu C, Tung HY, Corry DB, Evans SE, Liu X, Ferrari M, Zhang Z, Li XC, Wang RF, Shen H. Porous silicon microparticle potentiates anti-tumor immunity by enhancing cross-presentation and inducing type I interferon response. *Cell Rep* 11(6):957-66, 5/2015. e-Pub 4/2015. PMID: PMC4431902.
26. Gonzalez CE, Johnson TN, Evans S, Kidin LM, George S, Haq S, DeJesus AY, Walters R, Rolston K. Assessing compliance with established pneumonia core measures at a

- comprehensive cancer center. *J Healthc Qual* 37(4):232-44, Jul-Aug, 7/2015. e-Pub 3/2014. PMID: PMC4165849.
27. Han XY, Ihegword A, Evans SE, Zhang J, Li L, Cao H, Tarrand JJ, El-Kweifi O. Microbiological and clinical studies of legionellosis in 33 patients with cancer. *J Clin Microbiol* 53(7):2180-7, 7/2015. e-Pub 4/2015. PMID: PMC4473214.
  28. Yang J, Hernandez BJ, Martinez Alanis D, Narvaez del Pilar O, Vila-Ellis L, Akiyama H, Evans SE, Ostrin EJ, Chen J. The development and plasticity of alveolar type 1 cells. *Development* 143(1):54-65, 1/2016. e-Pub 11/2015. PMID: PMC4725210.
  29. Faiz SA, Bashoura L, Kodali L, Hessel AC, Evans SE, Balachandran DD. Sleep disordered breathing as a delayed complication of iatrogenic vocal cord trauma. *Sleep Med* 22:1-3, 6/2016. e-Pub 5/2016. PMID: PMC5377908.
  30. Leiva-Juárez MM, Ware HH, Kulkarni VV, Zweidler-McKay PA, Tuvim MJ, Evans SE. Inducible epithelial resistance protects mice against leukemia-associated pneumonia. *Blood* 128(7):982-92, 8/2016. e-Pub 6/2016. PMID: PMC4990857.
  31. Leiva-Juarez MM, Kirkpatrick CT, Gilbert BE, Scott B, Tuvim MJ, Dickey BF, Evans SE, Markesich D. Combined aerosolized Toll-like receptor ligands are an effective therapeutic agent against influenza pneumonia when co-administered with oseltamivir. *Eur J Pharmacol* 818:191-197, 1/2018. e-Pub 10/2017. PMID: PMC5742311.
  32. Leiva-Juárez MM, Kolls JK, Evans SE. Lung epithelial cells: therapeutically inducible effectors of antimicrobial defense. *Mucosal Immunol* 11(1):21-34, 1/2018. e-Pub 8/2017. PMID: PMC5738267.
  33. Kirkpatrick CT, Wang Y, Leiva Juarez MM, Shivshankar P, Pantaleón García J, Plumer AK, Kulkarni VV, Ware HH, Gulraiz F, Chavez Cavasos MA, Martinez Zayes G, Wali S, Rice AP, Liu H, Tour JM, Sikkema WKA, Cruz Solbes AS, Youker KA, Tuvim MJ, Dickey BF, Evans SE. Inducible lung epithelial resistance requires multisource reactive oxygen species generation to protect against viral infections. *MBio* 9(3), 5/2018. e-Pub 5/2018. PMID: PMC5954225.
  34. Dela Cruz CS, Wunderink RG, Christiani DC, Cormier SA, Crothers K, Doerschuk CM, Evans SE, Goldstein DR, Khatri P, Kobzik L, Kolls JK, Levy BD, Metersky ML, Niederman MS, Nusrat R, Orihuela CJ, Peyrani P, Prince AS, Ramírez JA, Ridge KM, Sethi S, Suratt BT, Sznajder JI, Tsalik EL, Walkey AJ, Yende S, Aggarwal NR, Caler EV, Mizgerd JP. Future Research Directions in Pneumonia: NHLBI Working Group Report. *Am J Respir Crit Care Med* 198(2):256-263, 7/2018. e-Pub 3/2018. PMID: PMC6058989.
  35. Khosravi N, Caetano MS, Cumpian AM, Unver N, De la Garza Ramos C, Noble O, Daliri S, Hernandez BJ, Gutierrez BA, Evans SE, Hanash S, Alekseev AM, Yang Y, Chang SH, Nurieva R, Kadara H, Chen J, Ostrin EJ, Moghaddam SJ. IL-22 promotes K-ras mutant lung cancer by induction of a pro-tumor immune response and protection of stemness properties. *Cancer Immunol Res* 6(7):788-797, 7/2018. e-Pub 5/2018. PMID: PMC6030457.
  36. Fernández-Cruz A, Magira E, Heo ST, Evans S, Tarrand J, Kontoyiannis DP. Bronchoalveolar lavage fluid cytology in culture-documented invasive pulmonary aspergillosis in patients with hematologic diseases: analysis of 67 episodes. *J Clin Microbiol* 56(10), 10/2018. e-Pub 9/2018. PMID: PMC6156316.
  37. Caetano MS, Hassane M, Van HT, Bugarin E, Cumpian AM, McDowell CL, Cavazos CG, Zhang H, Deng S, Diao L, Wang J, Evans SE, Behrens C, Wistuba II, Fuqua SAW, Lin H, Stabile LP, Watowich SS, Kadara H, Moghaddam SJ. Sex specific function of epithelial STAT3 signaling in pathogenesis of K-ras mutant lung cancer. *Nat Commun* 9(1):4589, 11/2018. e-Pub 11/2018. PMID: PMC6214980.
  38. Sheshadri A, Shah DP, Godoy M, Erasmus JJ, Song J, Li L, Evans SE, Chemaly RF, Dickey BF, Ost DE. Progression of the radiologic severity index predicts mortality in patients with parainfluenza virus-associated lower respiratory infections. *PLoS One* 13(5):e0197418, 2018. e-Pub 5/2018. PMID: PMC5957350.
  39. Vichaya EG, Gross PS, Estrada DJ, Cole SW, Grossberg AJ, Evans SE, Tuvim MJ, Dickey BF, Dantzer R. Lipocalin-2 is dispensable in inflammation-induced sickness and depression-like behavior. *Psychopharmacology (Berl)*. e-Pub 2/2019. PMID: 30806746.
  40. Abe JI, Ko KA, Kotla S, Wang Y, Paez-Mayorga J, Shin IJ, Imanishi M, Vu HT, Tao Y, Leiva-Juarez MM, Thomas TN, Medina JL, Won JH, Fujii Y, Giancursio CJ, McBeath E, Shin JH,

- Guzman L, Abe RJ, Taunton J, Mochizuki N, Faubion W, Cooke JP, Fujiwara K, Evans SE, Le NT. MAG11 as a link between endothelial activation and ER stress drives atherosclerosis. *JCI Insight* 4(7), 4/2019. e-Pub 4/2019. PMCID: PMC6483653.
41. Sheshadri A, Karimipour M, Vakil E, Bashoura L, Godoy M, Arain MH, Evans SE, Dickey BF, Ost DE, Chemaly RF, Faiz SA. Refinement of estimates of mortality risk using the Radiologic Severity Index in hematologic malignancy patients with respiratory syncytial virus infection. *Transpl Infect Dis*:e13105. e-Pub 5/2019. PMID: 31081570.
  42. Haydour Q, Hage CA, Carmona-Porquera EM, Epelbaum O, Evans SE, Gabe LM, Knox KS, Kolls JK, Wengenack NL, Prokop LJ, Limper AH, Murad MH. Diagnosis of Fungal Infections: A Systematic Review and Meta-Analysis Supporting ATS Clinical Practice Guideline. *Ann Am Thorac Soc*. e-Pub 6/2019. PMID: 31219341.
  43. Ware HH, Kulkarni VV, Wang Y, Pantaleón García J, Leiva Juarez M, Kirkpatrick CT, Wali S, Syed S, Kontoyiannis AD, Sikkema WKA, Tour JM, Evans SE. Inducible lung epithelial resistance requires multisource reactive oxygen species generation to protect against bacterial infections. *PLoS One* 14(2):e0208216, 2019. e-Pub 2/2019. PMCID: PMC6386317.

#### Invited Articles

1. Evans SE, Scanlon PD. Current practice in pulmonary function testing. *Mayo Clin Proc* 78(6):758-763, 2003. PMCID: PMC6483653.
2. Evans SE, McDonald FS, Scanlon PD. An approach to pulmonary function testing. *Respiratory Review* 2(6):40-44, 2006.
3. Safdar A, Shelburne SA, Evans SE, Dickey BF. Inhaled therapeutics for prevention and treatment of pneumonia. *Expert Opin Drug Saf* 8(4):435-49, 7/2009. PMID: 19538104.
4. Evans SE. (Selected for ATS CME program) ATS Virtual Symposium: Coping with Candida infections. *Proc Am Thorac Soc* 7(3):197-203, 5/2010. PMID: 20463248.
5. Evans SE, Xu Y, Tuvim MJ, Dickey BF. Inducible innate resistance of lung epithelium to infection. *Annu Rev Physiol* 72:413-35, 2010. PMCID: PMC4471865.
6. Evans SE, Ost DE. Pneumonia in the neutropenic cancer patient. *Curr Opin Pulm Med* 21(3):260-71, 5/2015. PMCID: PMC4429304.
7. Vakil E, Evans SE. Viral pneumonia in patients with hematologic malignancy or hematopoietic stem cell transplantation. *Clin Chest Med* 38(1):97-111, 3/2017. e-Pub 12/2016. PMCID: PMC5373482.
8. Wong JL, Evans SE. Bacterial pneumonia in patients with cancer: novel risk factors and management. *Clin Chest Med* 38(2):263-277, 6/2017. e-Pub 3/2017. PMCID: PMC5424613.
9. Young AY, Leiva Juarez MM, Evans SE. Fungal pneumonia in patients with hematologic malignancy and hematopoietic stem cell transplantation. *Clin Chest Med* 38(3):479-491, 9/2017. e-Pub 5/2017. PMCID: PMC5569912.

#### Abstracts

1. Wu J, Cleaver JO, Guzman FA, Kirkpatrick CT, Tuvim MJ, Evans SE. Inducible resistance to pneumonia requires extracanalicular TLR signaling in the lung epithelium. *American Journal of Respiratory and Critical Care Medicine* 189:A3948, 2014.
2. Kirkpatrick CT, Pantaleon J, Guzman FA, McGrath D, Michaud D, Rice A, Wu J, Cleaver JO, Evans SE. Lung epithelial cells are principle effector cells of inducible antiviral resistance. *American Journal of Respiratory and Critical Care Medicine* 189:A5229, 2014.
3. Pantaleon-Garcia J, Kirkpatrick CT, Kulkarni V, Martinez-Zayas G, Plumer AK, Leiva-Juarez MM, Evans SE. Inducible antiviral resistance enhances lung epithelial cell survival without modulating programmed cell death pathways. *American Journal of Respiratory and Critical Care Medicine* 191:A3238, 2015.
4. Leiva-Juarez MM, Wu J, Kirkpatrick CT, Kulkarni V, Pantaleon-Garcia J, Martinez-Zayas G, Ware HH, Plumer AK, Zweidler-McKay PA, Evans SE. Inducible epithelial resistance protects mice against pneumonia in the presence of acute leukemia and cytotoxic chemotherapy. *American Journal of Respiratory and Critical Care Medicine* 191:A1028, 2015.
5. Plumer AK, Leiva-Juarez MM, Kirkpatrick CT, Kulkarni V, Evans SE. Inducible resistance to viral infection in primary lung epithelial cells. *American Journal of Respiratory and Critical Care Medicine* 191:A3237, 2015.

6. Kirkpatrick CT, Pantaleon-Garcia J, Kulkarni V, Leiva-Juarez MM, Plumer AK, Evans SE. Lung epithelial cells are necessary and sufficient mediators of inducible antiviral resistance. *American Journal of Respiratory and Critical Care Medicine* 191:A3787, 2015.
7. Leiva-Juarez MM, Plumer AK, Kulkarni V, Pantaleon-Garcia J, Martinez-Zayas G, Ware HH, Evans SE. Pneumonia prophylaxis by TLR 2/6 and TLR9 stimulation is associated with an early increase in transepithelial electrical resistance independent of PKC $\zeta$  activation and a late increase in macromolecular transport in bronchial epithelial cells. *American Journal of Respiratory and Critical Care Medicine* 191:A3236, 2015.
8. VV Kulkarni, Y Wang, CT Kirkpatrick, MM Leiva-Juarez, AK Plumer, SE Evans. Cyclic GMP-AMP synthase (cGAS), stimulator of interferon genes (STING) and interferon activated gene 16 (IFI16) are essential for intrinsic lung epithelial responses against influenza A infection, but not for therapeutically induced antiviral resistance. *American Journal of Respiratory and Critical Care Medicine* 193:A5469, 2016, 2016.
9. CT Kirkpatrick, Y Wang, VV Kulkarni, AK Plumer, SE Evans. Lung epithelial cell mitochondrial reactive oxygen species are required for antiviral resistance induced by synergistic Toll-like receptor signaling. *American Journal of Respiratory and Critical Care Medicine* 193:A4456, 2016, 2016.
10. AK Plumer, CT Kirkpatrick, MM Leiva-Juarez, HH Ware, VV Kulkarni, Y Wang, J Pantaleon, SE Evans. Mitochondrial reactive oxygen species-dependent inducible antiviral resistance in primary lung epithelial cells. *American Journal of Respiratory and Critical Care Medicine* 193:A5470, 2016, 2016.
11. MM Leiva-Juarez, HH Ware, VV Kulkarni, CT Kirkpatrick, Y Wang, SE Evans. Synergistic Toll-like receptor signaling-induced resistance protects mice against pneumonia in the presence of acute leukemia and cytotoxic chemotherapy. *American Journal of Respiratory and Critical Care Medicine* 193:A4454, 2016, 2016.
12. HH Ware, MM Leiva-Juarez, CT Kirkpatrick, Y Wang, SE Evans. Treatment with synergistic TLR ligands that protect against leukemia-associated pneumonias does not worsen tumor burden. *American Journal of Respiratory and Critical Care Medicine* 193:A5459, 2016, 2016.
13. Castro S, Daliri S, De La Garza MM, Cumpian AM, Umer M, Del Bosque D, Akbani S, Evans SE, Moghaddam SJ. A promoting role for the epithelial MyD88/IRAK4/NF- $\kappa$ B signaling in K-ras mutant lung tumorigenesis. *Cancer Research* 77:2679, 2017.
14. Kulkarni VV, Wang Y, Pantaleon-Garcia J, Leiva MM, Evans SE. Activation of lung epithelial NF $\kappa$ B and STAT3 signaling pathways is required for inducible resistance to pseudomonas infection. *American Journal of Respiratory and Critical Care Medicine* 195:A4036, 2017.
15. Caetano MS, Van H, Bugarin E, Cumpian A, McDowell CL, Zhang H, Evans SE, Watowich S, Kadara H, Moghaddam SJ. Gender specific function of epithelial IL-6-STAT3 pathway in K-ras mutant lung cancer. *Cancer Research* 77:3974, 2017.
16. Leiva MM, Wang Y, Kulkarni VV, Batres S, Evans SE. Mitochondrial reactive oxygen species in lung epithelial cells are induced by oligodeoxynucleotides in a MyD88 and TRAF6-independent manner. *American Journal of Respiratory and Critical Care Medicine* 195:A4044, 2017.
17. Kulkarni VV, Wang Y, Pantaleon-Garcia J, Leiva MM, Wali S, Evans SE. Myddosome-activated epithelial TRAF6 is required for synergistic TLR-induced resistance to pneumonia. *American Journal of Respiratory and Critical Care Medicine* 195:A4035, 2017.
18. Wali S, Wang Y, Leiva MM, Batres S, Kulkarni, VV, Goldblatt B, Flores J, Tuvim MJ, Evans SE. Protection against viral pneumonia following inhalation of synergistic TLR agonists is not mediated by induction of type I interferons. *American Journal of Respiratory and Critical Care Medicine* 195:A4924, 2017.
19. Khosravi N, Torres-Garza N, Daliri S, De La Garza MM, Cumpian AM, Beltran E, Umer M, Del Bosque D, Akbani S, Evans SE, Moghaddam SJ. Toll like receptors mediated inflammatory signals mediate promotion of K-ras mutant lung cancer by chronic obstructive pulmonary disease. *Cancer Research* 77:2687, 2017.
20. Leiva MM, Wang Y, Kulkarni VV, Batres S, Wali S, Evans SE. Toll-like receptor-induced epithelial antiviral resistance affects the early influenza viral cycle with an associated upregulation in IFITM1 and IFITM2. *American Journal of Respiratory and Critical Care Medicine* 195:A2804, 2017.

21. Wang Y, Kulkarni VV, Leiva-Juarez MM, Wali S, Gulraiz F, Chavez Cavazos M, Evans SE. Mechanisms of ODN-induced epithelial reactive oxygen species generation and its role in inducible resistance to influenza infection. *American Journal of Respiratory and Critical Care Medicine* 197:A5495, 2018.
22. Wali S, Flores Gonzalez JR, Tuvim MJ, Dickey BF, Evans SE. Toll-like receptor signaling reveals differential gene expression profiles involved in prevention of virus-induced asthma. *American Journal of Respiratory and Critical Care Medicine* 197:A5493, 2018.
23. Goldblatt DL, Gonzalez JF, Valverde G, Jaramillo AM, Tkachman S, Wali S, Hernandez B, Scott B, Chen J, Evans SE, Tuvim MJ, Dickey BF. Aerosolized Toll-Like Receptor Agonists Suppress Acute Sendai Virus Burden and Chronic Asthma-Like Lung Disease in Mice. *American Journal of Respiratory and Critical Care Medicine* 199:A1208, 2019.
24. Goldblatt DL, Valverde G, Tkachman S, Martinez-Mocygemba M, Huston DP, Tuvim MJ, Dickey BF, Evans SE. Aerosolized Toll-like receptor agonists suppress house dust mite allergic asthma. *American Journal of Respiratory and Critical Care Medicine* 199:A2893, 2019.
25. Wali S, Goldblatt D, Flores Gonzalez JR, Tuvim MJ, Dickey BF, Evans SE. Inducible epithelial resistance prevents CD8+T cell-dependent lethal immunopathology following respiratory viral infections. *American Journal of Respiratory and Critical Care Medicine* 199:A1202, 2019.
26. Wang Y, Leiva-Juarez M, Kulkarni V, Pantaleon-Garcia, J, Wali S, Evans SE. Phosphorothiorate oligonucleotide stimulated mitochondrial reactive oxygen species mediate lung epithelial innate resistance to bacterial infection. *American Journal of Respiratory and Critical Care Medicine* 199:A1219, 2019.
27. Pantaleon-Garcia J, Kulkarni V, Wang Y, Evans SE. Synergistic gene and protein expression analyses reveal roles of NFkB and JUN in inducible epithelial resistance against infection. *American Journal of Respiratory and Critical Care Medicine* 199:A5597, 2019.

#### **Book Chapters**

1. Evans SE, Limper AH. HIV: North American Perspective. In: *Tropical and Parasitic Infections in the ICU*. Ed(s) Feldman C and Sarosi GA. Kluwer Academic Publishers: Norwell, MA, 127-144, 2004.
2. Evans SE, Limper AH. Chemotherapy-Induced Lung Disease - An Evidence-Based Approach. In: *Oncology: An Evidence-Based Approach*. Ed(s) Ganz PA, Hayes SP, Kinsella T, Pass HI, Schiller JH, Stone R, Stretcher V., Springer-Verlag: New York, 1401-1410, 2005.
3. Evans SE, Scanlon PD, Culver BH. Pulmonary Function Testing. In: *Comprehensive Respiratory Medicine*, 3rd Edition, 3. Ed(s) Albert AK, Spiro SG, and Jett JR. Elsevier: Philadelphia, PA, 147-155, 2008.
4. Shannon VR, Evans SE, et al. Respiratory Complications. In: *Holland-Frei Cancer Medicine*, 8. Ed(s) Hong WK, Bast RC, et al. BC Decker: Columbia, 2010.
5. Evans SE, Safdar A. Pneumonia and Other Lung Infections. In: *Principles and Practice of Cancer Infectious Diseases*. Ed(s) Safdar A. Humana Press: New York, 2011.
6. Shannon VR, Eapen GA, Jimenez CA, Grosu HB, Morice RC, Bashoura L, Evans SE, Adachi R, Kroll M, Faiz SA, Balachandran DD, Pravinkumar SE, Dickey BF. Respiratory Complications. In: *Holland-Frei Cancer Medicine*, 9. Ed(s) Bast RC, Croce CM, Hait WN, Hong WK, Kufe DW, Piccart-Gebhart M, Pollock RE, Weichselbaum RR, Wang H, Holland JF. John Wiley and Sons, Inc.: Hoboken, NJ, 1781-1805, 2017.
7. Evans SE, Safdar A. Pneumonia in the Critically Ill Cancer Patient. In: *Cancer Critical Care*. Ed(s) Rathi N, Haque S. Springer Science + Business Media: New York, 2018.
8. Sagar AES, Evans SE. Pneumonia in the Cancer Patient. In: *Oncologic Critical Care*. Ed(s) Nates JL, Price KJ. Springer Nature: Heidelberg, 2019. PMID: 978-3-319-74698-2.

#### **EDITORIAL AND REVIEW ACTIVITIES**

##### **Editor/Service on Editorial Board(s)**

Member, American Thoracic Society Web Editorial Board, 2012-2016

##### **Member of Editorial Review Board**

N/A

**Journal Reviewer**

Ad Hoc Reviewer, American Journal of Respiratory and Critical Care Medicine, 2002-present  
Ad Hoc Reviewer, Oncology, 2003-present  
Ad Hoc Reviewer, Respiratory Research, 2003-present  
Ad Hoc Reviewer, Medical Mycology, 2008-present  
Ad Hoc Reviewer, Cancer, 2009-present  
Ad Hoc Reviewer, European Respiratory Journal, 2010-present  
Ad Hoc Reviewer, Journal of Biological Chemistry, 2010-present  
Ad Hoc Reviewer, Journal of Leukocyte Biology, 2010-present  
Ad Hoc Reviewer, PLoS ONE, 2010-present  
Ad Hoc Reviewer, Respirology, 2010-present  
Ad Hoc Reviewer, American Journal of Hematology, 2011-present  
Ad Hoc Reviewer, American Journal of Physiology - Lung Cellular and Molecular Physiology, 2011-present  
Ad Hoc Reviewer, British Journal of Pharmacology, 2011-present  
Ad Hoc Reviewer, Inflammation Research, 2011-present  
Ad Hoc Reviewer, Clinical and Vaccine Immunology, 2012-present  
Ad Hoc Reviewer, Journal of Immunology, 2012-present  
Ad Hoc Reviewer, Mucosal Immunology, 2013-present  
Ad Hoc Reviewer, Genes and Immunity, 2014-present  
Ad Hoc Reviewer, Biology of Blood and Marrow Transplantation, 2015-present  
Ad Hoc Reviewer, The Oncologist, 2019-present

**TEACHING**

**Teaching Within Current Institution - GSBS Program in Clinical and Translational Sciences**

**Formal Teaching**

**Courses Taught**

Lecturer, MD Anderson Research Nurse CEU Series, Pulmonary function test interpretation  
2006

Lecturer, MD Anderson Stem Cell Transplant Nurse CEU Series, Pulmonary physiology  
2007

Lecturer, MD Anderson Respiratory Function Technologist Education Series  
2009

Lecturer, Human Pathobiology: Infectious Pneumonias and Interstitial Lung Diseases, GSBS Program in Clinical and Translational Sciences  
2015-present

**Other Formal Teaching**

Lecturer, Pulmonary Medicine Case Conference  
2005-present

Lecturer, Pulmonary Medicine Continuing Education Series  
2005-present

Lecturer, Division of Internal Medicine Grand Rounds: Immunocompromised host pneumonia

2007

Lecturer, Induction of lung innate immunity that protects broadly against pneumonia during leukemia therapy, Leukemia SPORE Scientific Conference

2008

**Direct Supervision**

**Undergraduate and Allied Health Students**

Research Mentor, Summer Undergraduate Research Program, Eden Norha, BS, 2007

Research Mentor, Cornell Research Honors Program, Patrick Weill, BS, 2011-2013

Research Mentor, Max Blekham, 2015

Research Mentor, Summer Undergraduate Research Program, Sarah Syed, 2016

Research Mentor, Summer Undergraduate Research Program, Shandel Chang, 2017

Research Mentor, Alex Kontoyiannis, 2018

Research Mentor, Summer Undergraduate Research Program, Jessica Roa, 2018

**Medical Students**

Research Mentor, Sylvia Leal Martinez, MD, 2005

Research Mentor, Cesar Garcia, MD, 2007

Research Mentor, Francisco Guzman Pruneda, MD, 2008-2012

Research Mentor, Ana Cristina Gonzalez Estavillo, MD, 2009

Research Mentor, Gerardo Gutierrez, MD, 2010-2011

Research Mentor, Miguel Leiva, MD, 2010-2012

Research Mentor, Eva Laura Martinez Ramirez, MD, 2011

Research Mentor, Jezreel Pantaleon Garcia, MD, 2012-2016

Research Mentor, Axel Gomez, MD, 2012

Research Mentor, Gabriela Martínez Zayas, MD, 2013-2016

Research Mentor, Ricardo Muñoz Trujillo, MD, 2015

Research Mentor, Katiana Flores, MD, 2016-2017

**Graduate Students**

Alejandra Contreras Fernández, 2018

**Postdoctoral Research Fellows**

Research Mentor, Dahui You, 2009-2010

Research Mentor, Francisco Pruneda Garcia, 2012-2013

Research Mentor, Miguel Leiva Juarez, 2014-2017

Research Mentor, Fahad Gulraiz, 2016-present

Research Mentor, Jezreel Pantaleon Garcia, 2018-present

**Clinical Residents and Fellows**

Faculty/Attending Physician, Medical and Surgical Intensive Care Units, Residents and Fellows, 2005-2009

Faculty/Attending Physician, Pulmonary Inpatient and Outpatient Consult Services, Residents and Fellows, 2005-present

**Teaching Outside Current Institution**

**Formal Teaching**

**Courses Taught**

Lecturer, Comparative Pulmonary Physiology, Mayo School of Medicine

2003

Assistant Director, MS-1 Pulmonary Physiology, Mayo School of Medicine

2004

Lecturer, Obesity: Implications for dyspnea and asthma, Mayo Pulmonary Division Conference

2004

### **Training Programs**

Instructor, Mayo Internal Medicine Resident Airway Management Course, Mayo School of Medicine

2003

Lecturer, Pulmonary function testing and interpretation, Mayo School of Medicine

2003

Discussant, Internal Medicine M&M Conference, Tracheobronchial stenting in non-malignant airways obstruction, Mayo School of Medicine

2004

Lecturer, Texas A&M IBT Molecular Biology Workshop Series, Texas A & M

2009

### **Other Formal Teaching**

Teaching Assistant, Gross Anatomy, University of Texas Medical School at San Antonio

1998

Chairman, Mayo Harrison's Club Internal Medicine Review, Mayo School of Medicine

2000-2001

Co-Chairman, Mayo Evidence-Based Medicine Journal Club, Mayo School of Medicine

2000-2002

Lecturer, Alveolar epithelial cell responses to *Pneumocystis carinii* pneumonia, Mayo Thoracic Diseases Research Conference

2003

Lecturer, Alveolar epithelial cell inflammatory responses: clinical responses, Mayo Pulmonary Division Conference

2003

Lecturer, Alveolar epithelial inflammation in *Pneumocystis carinii* infection, Mayo Thoracic Diseases Research Conference

2003

Lecturer, Alveolar epithelial inflammation in *Pneumocystis pneumonia*, Mayo Clinician-Investigator Program Research Conference

2003

Lecturer, Cardiopulmonary testing in chronic thromboembolic pulmonary hypertension, Mayo Pulmonary Hypertension Interest Group

2003

Lecturer, Immunocompromised host pneumonia, University of Texas Medical School at Houston Pulmonary Medicine Grand Rounds

2007

### **Supervisory Teaching**

#### **Committees**

##### **Advisory Committees**

Committee Member, Advisory Committee, GSBS, Sarah Jenkins, PhD, 2010-2013

University of Texas Graduate School of Biomedical Sciences, Junsuk Ko, 2016-present



University of Texas Graduate School of Biomedical Sciences, Marisa Hornbaker, 2016-present

Baylor College of Medicine, Matthew Madison, PhD, 2016-present

University of Texas Graduate School of Biomedical Sciences, Alexis Mobley, 2017-present

University of Texas Graduate School of Biomedical Sciences, Sarah Glazer, 2017-present

#### **Supervisory Committees**

Committee Member, Supervisory Committee, Graduate School of Biological Sciences, UTHSC-GSBS, Andrea Bordt, PhD, 2010-2012

#### **Examining Committees**

Committee Member, Examining Committee, Graduate School of Biological Sciences, UTHSC-GSBS, Victoria Mdoe, PhD, 2010-2013

Examining Committee, The University of Texas Graduate School of Biomedical Science, Sarah Glazer, 2019-present

#### **Direct Supervision**

##### **Undergraduate and Allied Health Students**

Research Mentor, Rice University, Hayden Ware, 2014-2017

Research Mentor, Rice University, Tanner Reese, 2017-present

##### **Medical Students**

Research Mentor, Howard Hughes Medical Institute, David Goldblatt, 2018-present

##### **Graduate Students**

Research Mentor, Graduate School of Biological Sciences, University of Texas Graduate School of Biomedical Sciences, Sarah Jenkins, PhD, 2010

Research Mentor, Program in Immunology, University of Texas Graduate School of Biomedical Sciences, Alexandria Plumer, 2014-2016

Research Mentor, Program in Immunology, University of Texas Graduate School of Biomedical Sciences, Taylor Chrisikos, PhD, 2015

Research Mentor, Program in Immunology, University of Texas Graduate School of Biomedical Sciences, Junsuk Ko, PhD, 2016

Research Mentor, Program in Immunology, University of Texas Graduate School of Biomedical Sciences, Michael Longmire, MD/PhD, 2016-present

Research Mentor, Program in Immunology, University of Texas Graduate School of Biomedical Sciences, Shradha Wali, PhD, 2016-present

Research Mentor, Program in Immunology, University of Texas Graduate School of Biomedical Sciences, Vikram Kulkarni, 2018-present

##### **Clinical Residents and Fellows**

Sub-consultant, Multidisciplinary, Medical and Surgical Intensive Care Units, Mayo Clinic, Medical Students, 2004-2005

Sub-consultant, Mayo Clinic, Pulmonary Medicine Inpatient Service, Residents and Fellows, 2004-2005

#### **CONFERENCES AND SYMPOSIA**

##### **Organization of Conferences/Symposia (Include chairing session)**

Association of American Medical Colleges National Meeting, New Orleans, LA, Steering Committee, 1998

American College of Chest Physicians CHEST 2005, Montreal, QC, Canada, Affiliate NetWork Steering Committee, 2005

American Thoracic Society 2009 International Conference, Poster Session: Lung Host Defenses to Infection and Host Cell-Pathogen Interaction, San Diego, CA, Chair, 2009

American Thoracic Society International Conference, New Orleans, LA, PITB Program Committee, 2009

American Thoracic Society 2009 International Conference, Poster Session: Treatment of Respiratory Infections, San Diego, CA, Chair, 2010

American Thoracic Society 2010 International Conference, Poster Session: Pneumonia -- Bench to Bedside, New Orleans, LA, Chair, 2010

American Thoracic Society 2010 International Conference, Symposium: Novel Host Defense Mechanisms with Therapeutic Implications, New Orleans, LA, Chair, 2010

American Thoracic Society 2011 International Conference, Poster Session: Host Defense Mechanisms Against Bacterial Respiratory Infections, Denver, CO, Chair, 2011

American Thoracic Society International Conference, Denver, CO, PITB Program Committee, 2011

American Thoracic Society International Conference, San Francisco, CA, PITB Program Committee, 2012

American Thoracic Society PITB Webinar: Effects of Cigarette Smoking on Tuberculosis Infection, Chair, 2013

American Thoracic Society PITB Webinar: Health Care-Associated Pneumonia (HCAP): Pathophysiology, Diagnosis and Treatment, Chair, 2014

American Thoracic Society PITB Webinar: The Global Spread, Diagnosis and Treatment of Non-tuberculous Mycobacterial Infections, Chair, 2014

American Thoracic Society PITB Webinar: Vaccine-Preventable Lower Respiratory Tract Infections, Chair, 2014

American Thoracic Society 2015 International Conference, Denver, CO, PITB Program Committee, 2015

American Thoracic Society PITB Webinar: Toward a shorter and simpler treatment of TB: Are we there yet?, Chair, 2015

American Thoracic Society International Conference, San Francisco, CA, PITB Program Committee, 2016

American Thoracic Society International Conference: New Insights into the predisposition, pathogenesis, and management of fungal pneumonia, San Francisco, CA, Chair, 2016

American Thoracic Society International Conference: Workshop on Antimicrobial Resistance in the ICU, San Francisco, CA, Moderator, 2016

Gordon Research Conference, Biology of Acute Respiratory Infections: Novel Effector Antimicrobial Mechanisms, Galveston, TX, Moderator, 2016

American Thoracic Society 2017 International Conference, Mini-Symposium: When microbes attack: host-pathogen interactions, Washington, DC, Chair, 2017

American Thoracic Society 2017 International Conference: Fungal infections in non-HIV immunocompromised populations, Washington, DC, Moderator, 2017

American Thoracic Society International Conference, Scientific Symposium: Immunocompromised host pneumonia: expanding risks and novel management strategies, Washington, DC, Chair, 2017

American Thoracic Society International Conference: Fungal case reports, San Diego, CA, Chair, 2018

American Thoracic Society International Conference: Host response to lung infections - insights into new mechanisms, Dallas, TX, Chair, 2019

### **Presentations at National or International Conferences**

#### **Invited**

Development of medical student outreach programs, Association of American Medical Colleges, National Meeting, New Orleans, LA, 1998

Draw the line: abuse in medical education, Association of American Medical Colleges National Meeting, New Orleans, LA, 1998

Funding changes in graduate medical education, Association of American Medical Colleges GSA/MAS/OSR National Spring Meeting, Chicago, IL, 1998

Medical student perspectives of communication instruction, Bayer Institute for Health Care Communication, National Faculty Symposium, Phoenix, AZ, 1998

Gonzalez CE, Johnson T, Evans S, Rolston K. Pneumonia in patients with cancer, 18th European Congress of Clinical Microbiology and Infectious Diseases, Barcelona, Spain, 2008

Gonzalez CE, Johnson T, Rolston K, Evans S. Compliance & documentation with established pneumonia indicators in MDACC emergency center, International Forum on Quality and Safety in Healthcare, Berlin, Germany, 2009

Stimulated innate resistance in vitro: bacterial killing by respiratory epithelial cells, American Thoracic Society International Conference, San Diego, CA, 2009

Toll-like receptor synergy in stimulated innate resistance, American Thoracic Society International Conference, San Diego, CA, 2009

Epithelial resistance to pneumonia induced by TLR synergy, Keystone Symposium: Immunity in the Respiratory Tract: Challenges of the Lung Environment, Vancouver, British Columbia, Canada, 2011

New concepts in host defense: epithelial cells in lung defense, American Thoracic Society International Conference, Denver, CO, 2011

Gonzalez CE, Rolston K, Johnson T, Evans S. Quality care in cancer patients with pneumonia, 3rd Annual National Forum on Quality Improvement in Health Care, Orlando, FL, 2011

Pneumonia in the cancer patient on chemotherapy, American Thoracic Society International Conference, Philadelphia, PA, 2013

Lung epithelial cells are principal effectors of inducible antiviral resistance, Keystone Symposium: Antiviral Immunity, Breckenridge, CO, 2015

Current therapeutic approaches for fungal pneumonia, American Thoracic Society International Conference, San Francisco, CA, 2016

Pneumonia in patients with hematologic malignancies and HSCT recipients, American Thoracic Society International Conference, San Francisco, CA, 2016

Synergistic TLR signaling in the lung epithelium induces mitochondrial ROS dependent antiviral resistance, Gordon Research Conference: Biology of Acute Respiratory Infections, Galveston, TX, 2016

Pneumonia during cancer chemotherapy or stem cell transplantation, American Thoracic Society International Conference, Washington, DC, 2017

Pneumonia in Hematologic Malignancies, Chemotherapy and Blood Disorder, NHLBI Working Group on Acute Pneumonia, Bethesda, MD, 2017

Protection against viral pneumonia following inhalation of synergistic TLR agonists is not mediated by induction of type I interferons, American Thoracic Society International Conference, Washington, DC, 2017

Host risk factors & susceptibilities to pneumonia, American Thoracic Society Workshop: Understanding the Host in the Management of Pneumonia, San Diego, CA, 2018

Inducible Epithelial Resistance to Pneumonia, Gordon Research Conference: Biology of Acute Respiratory Infections, Ventura, CA, 2018

Pneumonia in patients with hematologic malignancies and HSCT recipients, American Thoracic Society Post Graduate Course: Difficult Clinical Problems in Pulmonary and Critical Care Infections, San Diego, CA, 2018

Inducible resistance to prevent pneumonia in patients with hematologic malignancies, MD Anderson Global Academic Programs Conference, Houston, TX, 2019

Postgraduate Course: Harnessing innate immunity to protect against pneumonia, American Thoracic Society International Conference, Dallas, TX, 2019

Scientific update in inducible epithelial resistance, International Respiratory Infections Society Conference, Dallas, TX, 2019

#### **Other, Including Scientific Exhibitions**

Expression of transforming growth factor  $\beta$ 1 and extracellular matrix associated fibronectin in lymphangioleiomyomatosis, NHLBI/LAM Foundation 4th Annual International Research Conference, Cincinnati, OH, 2001

Reduced expression of the cyclin dependent kinase inhibitor p27kip1 in non small cell lung carcinoma, American Thoracic Society International Conference, San Francisco, CA, 2001

Transforming growth factor  $\beta$ 1 and extracellular matrix associated fibronectin expression in lymphangioleiomyomatosis, American College of Chest Physicians, CHEST 2001, Philadelphia, PA, 2001

Cyclin dependent kinase inhibitor p27kip1 expression in non small cell carcinoma, American Federation for Medical Research, Clinical Research 2002, Baltimore, MD, 2002

Expression of extracellular matrix associated transforming growth factor- $\beta$ 1 and fibronectin in pulmonary lymphangioleiomyomatosis, Combined Annual Session, Central Society for Clinical Research, Chicago, IL, 2002

Lactosylceramide-dependent internalization of *Pneumocystis carinii*  $\beta$ -glucan stimulates inflammatory cytokine responses from alveolar epithelial cells, American Thoracic Society International Conference, Seattle, WA, 2002

Cardiopulmonary exercise testing: a potential role in the diagnosis of chronic thromboembolic pulmonary hypertension, American Federation for Medical Research, Clinical Research 2003, Baltimore, MD, 2003

Characterization of cardiopulmonary exercise testing in surgically-proven chronic thromboembolic pulmonary hypertension, American Thoracic Society International Conference, Seattle, WA, 2003

Nuclear translocation of NF- $\kappa$ B is required for *Pneumocystis carinii*  $\beta$ -glucan-induced chemokine production from alveolar epithelial cells, FASEB Experimental Biology 2003, San Diego, CA, 2003

*Pneumocystis carinii*  $\beta$ -glucan-induced chemokine secretion from alveolar epithelial cells requires activation of protein kinase C and NF- $\kappa$ B, American College of Chest Physicians, CHEST 2003, Orlando, FL, 2003

Smut lung: an atypical hypersensitivity pneumonia, American College of Chest Physicians, CHEST 2003, Orlando, FL, 2003

Evans SE, Kottom TJ, Brown GD, Limper AH. Alveolar epithelial inflammatory responses to *Pneumocystis carinii*  $\beta$ -glucan are dependent on lactosylceramide, but not Dectin-1, American Thoracic Society International Conference, Orlando, FL, 2004

Pneumocystis carinii  $\beta$ -glucan, American College of Chest Physicians, CHEST 2004, Seattle, WA, 2004

Alveolar epithelial cell caveolar function is required for Pneumocystis carinii  $\beta$ -glucan-induced inflammatory cytokine production, American Thoracic Society International Conference, San Diego, CA, 2005

Anthropometry & Spirometry: effects of obesity on respiratory function, American Thoracic Society International Conference, San Diego, CA, 2005

Interrogation of host gene expression predicts infecting respiratory pathogens, American Thoracic Society International Conference, San Francisco, CA, 2007

Stimulation of lung innate immunity protects mice broadly against bacterial, fungal and viral pneumonia, Gordon Research Conference: Biology of Acute Respiratory Infections, Ventura, CA, 2008

Stimulation of lung innate immunity protects mice broadly against bacterial, fungal and viral pneumonia, 5th International Innate Immunity Conference, Chania, Crete, Greece, 2008

Stimulation of lung innate immunity protects mice broadly against bacterial, fungal and viral pneumonia, American Thoracic Society International Conference, Toronto, Ontario, Canada, 2008

Stimulus-specific protective and non-protective inflammatory responses in the airways, American Thoracic Society International Conference, Toronto, Ontario, Canada, 2008

Evans SE, Larson DT, Peterson JW, Tuvim MJ, Gendron C, Hook M, Dickey BF. Stimulated innate resistance from the lung epithelium, Gordon Research Conference: Antimicrobial peptides, Ventura, CA, 2009

Broad resistance against pneumonia induced by synergistic TLR2/6 and TLR9 stimulation, American Thoracic Society International Conference, New Orleans, LA, 2010

Induced resistance to influenza A infection by cooperative TLR2/6 and TLR9 activation, American Thoracic Society International Conference, New Orleans, LA, 2010

Synergistic interactions of TLR2/6 and TLR9 induce a high level of epithelial resistance to lung infection, Gordon Research Conference: Biology of Acute Respiratory Infections, Ventura, CA, 2010

Lung epithelial cells are important effectors of inducible resistance to pneumonia, American Thoracic Society International Conference, Denver, CO, 2011

Gonzalez CE, Walters R, Rolston KV, Evans S, Johnson TN, DeJesus A, Kidlin LM, Turner-Jones HI. Compliance with established pneumonia core measures at MD Anderson Cancer Center in the Emergency Center, ASCO Quality Care Symposium, San Diego, CA, 2012

Canonical TLR signaling is required, but cannot fully explain synergistic inducible resistance to pneumonia, American Thoracic Society International Conference, Philadelphia, PA, 2013

Pantaleon J, Kirkpatrick CT, Wu Jessica, Evans SE. In vitro testing for synergistic inducible resistance against influenza A pneumonia in lung epithelial cells, XV Pharmacology Congress, UNAM/Mexican Pharmacology Association, Mexico City, Mexico, 2013

Synergistic inducible resistance to pneumonia requires canonical signaling in the lung epithelium, American Thoracic Society International Conference, Philadelphia, PA, 2013

Evans SE. Inducible epithelial resistance requires extracanalical TLR signaling, American Thoracic Society International Congress, San Diego, CA, 2014

Evans SE. Inducible epithelial resistance to pneumonia requires extracanalical TLR signaling, Gordon Research Conference: Biology of Acute Respiratory Infections, Lucca, Italy, 2014

Evans SE. Lung epithelial cells are principal effectors of inducible antiviral resistance, American Thoracic Society International Congress, San Diego, CA, 2014

Inducible antiviral resistance enhances lung epithelial cell survival without modulating programmed cell death pathways, American Thoracic Society International Conference, Denver, CO, 2015

Inducible epithelial resistance protects mice against pneumonia in the presence of acute leukemia and cytotoxic chemotherapy, American Thoracic Society International Conference, Denver, CO, 2015

Inducible resistance to viral infection in primary lung epithelial cells, American Thoracic Society International Conference, Denver, CO, 2015

Lung epithelial cells are necessary and sufficient mediators of inducible antiviral resistance, American Thoracic Society International Conference, Denver, CO, 2015

Pneumonia prophylaxis by TLR 2/6 and TLR9 stimulation is associated with an early increase in transepithelial electrical resistance independent of PKC $\zeta$  activation and a late increase in macromolecular transport in bronchial epithelial cells, American Thoracic Society International Conference, Denver, CO, 2015

Synergistic Toll-like receptor signaling in lung epithelial cells induces mitochondrial reactive species-dependent antiviral resistance, TOLL2015 Conference, Marbella, Spain, 2015

Synergistic Toll-like receptor-induced resistance protects mice against pneumonia in the presence of acute leukemia and cytotoxic chemotherapy, TOLL2015 Conference, Marbella, Spain, 2015

Cyclic GMP-AMP synthase (cGAS), stimulator of interferon genes (STING) and interferon activated gene 16 (IFI16) are essential for intrinsic lung epithelial responses against influenza A infection, but not for therapeutically induced antiviral resistance, American Thoracic Society International Conference, San Francisco, CA, 2016

Lung epithelial cell mitochondrial reactive oxygen species are required for antiviral resistance induced by synergistic Toll-like receptor signaling, American Thoracic Society International Conference, San Francisco, CA, 2016

Synergistic Toll-like receptor signaling-induced resistance protects mice against pneumonia in the presence of acute leukemia and cytotoxic chemotherapy, American Thoracic Society International Conference, San Francisco, CA, 2016

Treatment with synergistic TLR ligands that protect against leukemia-associated pneumonias does not worsen tumor burden, American Thoracic Society International Conference, San Francisco, CA, 2016

Activation of lung epithelial NF $\kappa$ B and STAT3 signaling pathways is required for inducible resistance to pseudomonas infection, American Thoracic Society International Conference, Washington, DC, 2017

Mitochondrial reactive oxygen species in lung epithelial cells are induced by oligodeoxynucleotides in a MyD88 and TRAF6-independent manner, American Thoracic Society International Conference, Washington, DC, 2017

Myddosome-activated epithelial TRAF6 is required for synergistic TLR-induced resistance to pneumonia, American Thoracic Society International Conference, Washington, DC, 2017

Progression of radiologic infiltrates after parainfluenza infection predicts mortality in patients with hematologic malignancies, American Thoracic Society International Conference, Washington, DC, 2017

Synergistic gene and protein expression analyses reveal roles of NF $\kappa$ B and JUN in inducible epithelial resistance, American Thoracic Society International Conference, Dallas, TX, 2019

#### **Seminar Invitations from Other Institutions**

Alveolar epithelial cell inflammation in *Pneumocystis carinii* infection, Combined Research Conference, The University of Texas Medical School at San Antonio, San Antonio, TX, 2004

Stimulation of lung innate immunity protects mice broadly against bacterial, fungal and viral pneumonia, Baylor Institute for Immunology-Texas A & M 1st Annual Cancer Conference, Baylor Institute for Immunology, Immunology Research, Houston, TX, 2008

The respiratory epithelium in pneumonia: diagnostic and protective roles, Center for Extracellular Matrix Biology Research Conference, Texas A&M IBT, Houston, TX, 2008

The respiratory epithelium in pneumonia: diagnostic and protective roles, Infectious Diseases Research Conference, Baylor College of Medicine, Houston, TX, 2008

Inducible innate resistance from the lung epithelium, Texas A&M IBT, Molecular Biology Workshop, Houston, TX, 2009

Stimulated innate resistance against pneumonia, Infectious Diseases Research Conference, Baylor College of Medicine, Infectious Diseases, Houston, TX, 2009

Epithelial resistance to pneumonia induced by TLR synergy, Oregon Health Sciences University, Portland, OR, 2011

Inducible epithelial resistance to pneumonia, University of Texas Medical School, Pediatrics, Section of Pulmonary Medicine, Houston, TX, 2011

Inducible epithelial resistance to pneumonia, Texas A&M Center for Infectious and Inflammatory Disease, Houston, TX, 2011

Inducible epithelial resistance to pneumonia, University of Texas Medical School, Pathology and Laboratory Medicine Research Seminar, Houston, TX, 2011

Inducible epithelial resistance to prevent pneumonia, Louisiana State University School of Veterinary Medicine, Department of Pathobiological Science, Baton Rouge, LA, 2012

Inducible epithelial resistance to prevent pneumonia, University of Texas Medical School, Pathology, Houston, TX, 2012

Inducible epithelial resistance to prevent cancer-associated pneumonia, The Methodist Hospital Research Institute, Houston, TX, 2014

Inducible epithelial resistance to pneumonia, Yale University School of Medicine, Internal Medicine, Division of Pulmonary and Critical Care Medicine, New Haven, CT, 2015

Fungal pneumonia, University of Texas Medical School, Internal Medicine, Houston, TX, 2016

Inducible epithelial resistance to prevent AML-associated pneumonia, Memorial Sloan Kettering Cancer Center, New York, NY, 2016

Inducible epithelial resistance to prevent leukemia-associated pneumonia, University of Michigan, Internal Medicine, Ann Arbor, MI, 2016

Inducible epithelial resistance to prevent pneumonia, University of Missouri, Medicine, Columbia, MO, 2016

Inducible epithelial resistance to prevent pneumonia, Tulane University, Internal Medicine, New Orleans, LA, 2016

Keynote Address, Bernard Harris Medical Society Meeting: Precision Medicine, Texas Tech University, Lubbock, TX, 2018

#### **Lectureships and Visiting Professorships**

Inducible epithelial resistance to pneumonia, Visiting Professor, Mayo Clinic College of Medicine, Rochester, MN, 2011

Inducible epithelial resistance to prevent pneumonia, Louisiana State University School of Veterinary Medicine, Pathobiological Sciences, Baton Rouge, LA, 2012

Inducible epithelial resistance to pneumonia, Yale University, Internal Medicine, New Haven, CT, 2015

Inducible epithelial resistance to prevent leukemia-associated pneumonia, University of Michigan, Internal Medicine, Ann Arbor, MI, 2016

Inducible epithelial resistance to prevent pneumonia, Michael E. DeBakey VA Medical Center & Baylor College of Medicine, Center for Translational Research on Inflammatory Diseases, Houston, TX, 2017

**Other Presentations at State and Local Conferences**

Basics of resident and student community involvement, Resident and Student Leadership Conference, Texas Academy of Family Physicians, Austin, TX, 1998

Evans SE, Susanto I, Anzueto A, Levine S, Sako EY, Brown C, Peters J. A. Prospective randomized controlled study of the effects of glucocorticoid dosing on acute and chronic rejection of lung allografts, Texas Thoracic Society, Dallas, TX, 1998

Rhodococcus equi pneumonia presenting as spontaneous pneumothorax, ACP-ASIM Texas Chapter Scientific Meeting, San Antonio, TX, 1998

Evans SE. A 26 year-old Somali female with tuberculosis and multiple tropical infections., ACP-ASIM Minnesota Chapter Scientific Meeting, Minneapolis, MN, 1999

Evans SE, Chong EMB. Respiratory isolation in smear-negative tuberculosis, Clinical Decision-Making Conference, Mayo Graduate School of Medicine, Rochester, MN, 1999

Evans SE, Park MA, Wunderlich AW, Wysokinski WE. Renal disease in primary systemic amyloidosis, Nephrology Grand Rounds, Mayo School of Medicine, Rochester, MN, 2001

Compliance and documentation of established pneumonial indicators in the MDACC Emergency Center, Division of Internal Medicine Research Retreat, The University of Texas MD Anderson Cancer Center, Houston, TX, 2007

Gonzalez CE, Johnson T, Evans SE. Compliance and documentation pneumonia performance indicators in the MDACC Emergency Center, Division of Internal Medicine Grand Rounds, The University of Texas MD Anderson Cancer Center, Houston, TX, 2007

Host gene expression profiles distinguished between infecting pathogens in an experimental model of murine pneumonia, Division of Internal Medicine Research Retreat, The University of Texas MD Anderson Cancer Center, Houston, TX, 2007

Larson DT, Gedron C, Hook M, Dickey BF, Evans SE. Stimulated innate resistance in vitro: bacterial killing by respiratory epithelial cells, Division of Internal Medicine Research Retreat, The University of Texas MD Anderson Cancer Center, Houston, TX, 2009

Duggan JM, Tuvim MJ, Dickey BF, Evans SE. Toll-like receptor synergy in stimulated innate resistance, Division of Internal Medicine Research Retreat, The University of Texas MD Anderson Cancer Center, Houston, TX, 2009

Stimulated innate resistance against pneumonia in patients with leukemia, Combined Divisions of Cancer Medicine and Internal Medicine Grand Rounds, The University of Texas MD Anderson Cancer Center, Houston, TX, 2010

Cleaver JO, You D, Duggan JM, Evans SE. Toll-like receptor-induced epithelial resistance to pneumonia, Division of Internal Medicine Research Retreat, The University of Texas MD Anderson Cancer Center, Houston, TX, 2011

Inducible Resistance to Pneumonia, Institutional Grand Rounds, The University of Texas MD Anderson Cancer Center, Houston, TX, 2012

Inducible resistance to prevent leukemia-associated pneumonia, Hematology Grand Rounds, The University of Texas MD Anderson Cancer Center Leukemia Department, Houston, TX, 2012

Leukemia-associated pneumonia: incidence, impact and novel prevention strategies, Division of Internal Medicine Grand Rounds, University of Texas MD Anderson Cancer Center Division of Internal Medicine, Houston, TX, 2013



Evans SE. Prevention of pneumonia in cancer patients with TLR ligands, MD Anderson Global Academic Programs Conference, Houston, TX, 2015

Inducible epithelial resistance to prevent viral pneumonia, Internal Medicine Grand Rounds, University of Texas MD Anderson Cancer Center Division of Internal Medicine, Houston, TX, 2016

Inducible resistance to prevent pneumonia in patients with hematologic malignancies, MD Anderson Global Academic Programs Conference, Houston, TX, 2019

Inducible epithelial resistance to prevent acute and chronic complications of pneumonia, Division of Internal Medicine Grand Rounds, University of Texas MD Anderson Cancer Center Division of Internal Medicine, Houston, TX, 2019

## **PROFESSIONAL MEMBERSHIPS/ACTIVITIES**

### **Professional Society Activities, with Offices Held**

#### **National and International**

American College of Physicians-American Society of Internal Medicine

Associate Member, 1995-2003

Member, 2003-present

American Medical Association

Medical Student Section, 1995-1999

Member, 1995-present

Delegate, National Leadership Conference, 1997

Residents & Fellows Section, 1999-2005

Young Physicians Section, 2005-2010

Association of American Medical Colleges

Representative, Organization of Student Representatives, 1996-1999

Local Director, National Primary Care Day, 1996

Chairman, Southern Region, Organization of Student Representatives, 1997-1998

Co-Chair, National Outreach Program, 1997-1998

Member, National Administrative Board, 1997-1998

Member, National Liaison Nominating Committee, 1997-1998

Alpha Omega Alpha Honor Medical Society

Life Member, 1998-present

American Federation of Medical Research

Member, 2001-2004

Councilor, Midwest Region, 2002-2004

American College of Chest Physicians

Affiliate Member, 2002-2007

Affiliate NetWork Steering Committee, 2005-2007

Fellow, 2007-present

Content Expert, ACCP PREP Course in Fungal Pneumonia, 2018-present

American Thoracic Society

In-Training Member, 2002-2005

Member, 2005-present

Fungal Pneumonia Working Group, 2008-2013

Program Committee, Assembly on Pulmonary Infections and Tuberculosis (PITB), 2009-2012

Communications Director, Assembly on Pulmonary Infections and Tuberculosis (PITB), 2012-2014

Chair, Web Committee, Assembly on Pulmonary Infections and Tuberculosis (PITB), 2012-2016

Executive Committee, Assembly on Pulmonary Infections and Tuberculosis (PITB), 2012-2016

Planning Committee, Assembly on Pulmonary Infections and Tuberculosis (PITB), 2013-2018

Program Committee, Assembly on Pulmonary Infections and Tuberculosis (PITB), 2014-2017

Member, Acute Pneumonia Working Group, 2015-2018

Project Committee: Diagnosis of Fungal Infections in Pulmonary and Critical Care Practice, 2015-present

Co-Chair, Acute Pneumonia Working Group, 2018-present

Society of Critical Care Medicine

Member, 2002-present

American Society for Microbiology

Contributing Member, 2018-present

**Local/State**

Minnesota Medical Association, MN

Member, 1999-2005

Zumbro Valley Medical society, MD

Member, 1999-2005

Texas Medical Association, TX

Member, 2005-present

**DATE OF LAST CV UPDATE**

6/18/2019