February 6, 2018

CURRICULUM VITAE
BARRY S. SHEA, MD

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EDUCATION

1992-1996	B.A., Chemistry *Cum laude*	Dartmouth College, Hanover, NH
1996-2000	M.D. *Alpha Omega Alpha*	Tufts University School of Medicine, Boston, MA

POSTGRADUATE TRAINING

2000-01 Intern, Internal Medicine, New York-Presbyterian Hospital / Weill Cornell Medical Center, New York, NY

2001-03 Resident, Internal Medicine, New York-Presbyterian Hospital / Weill Cornell Medical Center, New York, NY
2002 - *Assistant Chief Resident*

2003-04 Research Fellow, Genetic Medicine, New York-Presbyterian Hospital / Weill Cornell Medical Center, New York, NY

2004-09 Clinical and Research Fellow, Pulmonary and Critical Care Medicine, Harvard Medical School (Massachusetts General Hospital, Brigham and Women's Hospital, and Beth Israel Deaconess Medical Center), Boston, MA

POSTGRADUATE HONORS AND AWARDS

2000 Leon Levinson Prize in Physiology, Tufts University School of Medicine

2003 C. Richard Bowman Memorial Award New York-Presbyterian Hospital / Weill Cornell Medical Center

2008 American Thoracic Society Fellows Career Development Award

2008 Pulmonary Junior Investigator Award, Massachusetts General Hospital

2009 First Prize, Basic Science Abstract, Sixth Annual Respiratory Disease Young Investigators' Forum

2012 Young Investigator Award, 17th International Colloquium on Lung and Airway Fibrosis

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

Medical Licenses:

2001-05 New York
2004- Massachusetts
2014- Rhode Island

Board Certifications:

2003-13 Internal Medicine
2007- Pulmonary Diseases
2008- Critical Care Medicine

ACADEMIC APPOINTMENTS

2010-14 Instructor in Medicine, Harvard Medical School, Boston, MA

2014- Assistant Professor of Medicine, Warren Alpert Medical School of Brown University, Providence, RI

HOSPITAL APPOINTMENTS

2007-09 Graduate Assistant in Medicine, Pulmonary and Critical Care Unit, Massachusetts General Hospital, Boston, MA

2009-12 Assistant in Medicine, Pulmonary and Critical Care Unit, Massachusetts General Hospital, Boston, MA

2012-14 Assistant Physician, Pulmonary and Critical Care Unit, Massachusetts General Hospital, Boston, MA

2014- Attending Physician, Divisions of Pulmonary, Critical Care and Sleep Medicine, Rhode Island Hospital and Miriam Hospital, Providence, RI

2014- Director, Interstitial Lung Disease Program, Rhode Island Hospital, Providence, RI

2017- Clinical Director of Pulmonary Medicine, Divisions of Pulmonary, Critical Care and Sleep Medicine, Rhode Island Hospital and Miriam Hospital, Providence, RI

OTHER APPOINTMENTS

2011- Ad hoc reviewer, American Journal of Respiratory Cell and Molecular Biology, American Journal of Respiratory and Critical Care Medicine, Annals of the American Thoracic Society, Journal of Critical Care, PLOS ONE, Scientific Reports, BMC Pulmonary Medicine

2012-13 Ad hoc reviewer, American Thoracic Society Scientific Advisory Council

2015- Course Director, Brown Pulmonary and Critical Care Research Seminar

2015- Associate Director, Boston-Providence Pulmonary Fibrosis Care Center; Member of the Pulmonary Fibrosis Foundation Care Center Network (CCN)

2016- Director, Pulmonary Function Laboratory, University Medicine Foundation, Providence, RI

2016-17 Director, Pulmonary and Sleep Medicine Outpatient Medicine, University Medicine Foundation, Providence, RI

HOSPITAL COMMITTEES

2015- Member, EMR Committee, University Medicine Foundation

UNIVERSITY COMMITTEES

2015-17 Member, Residency Selection Committee, Brown Internal Medicine Residency

MEMBERSHIP IN SOCIETIES

2007- Member, American Thoracic Society

2010-14 Member, Junior Professionals Working Group, ATS Assembly on Respiratory Cell and Molecular Biology

2012-14 Chair, Junior Professionals Working Group, ATS Assembly on Respiratory Cell and Molecular Biology

2015- Member, American College of Chest Physicians

2016-17 Member, Nominating Committee, ATS Assembly on Respiratory Cell and Molecular Biology

PUBLICATIONS

PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Kalish RA, McHugh G, Granquist J, Shea B, Ruthazer R, Steere AC. Persistence of Immunoglobulin M or Immunoglobulin G antibody responses to Borrelia burgdorferi 10-20 years after active Lyme Disease. Clin Infect Dis. 2001;33(6):780-5.

2. Tager AM, LaCamera P*, Shea BS*, Campanella GK, Karimi-Shah BA, Kim ND, Zhao Z, Polosukhin V, Hart WK, Poorvu EC, Bercury SD, Xu Y, Blackwell TS, Chun J, Luster AD. The lysophosphatidic acid receptor LPA1 links pulmonary fibrosis to lung injury by mediating fibroblast recruitment and vascular leak. Nat Med. 2008;14(1):45-54.
**These authors contributed equally to this work*

3. Shea BS, Brooks SF, Fontaine BA, Chun J, Luster AD, Tager AM. Prolonged exposure to sphingosine 1-phosphate receptor-1 agonists exacerbates vascular leak, fibrosis, and mortality after lung injury. Am J Resp Cell Mol Biol. 2010;43(6):662-73. PMC2993087.

4. Liu F, Mih JD, Shea BS, Kho AT, Sharif AS, Tager AM, Tschumperlin DJ. Feedback amplification of fibrosis through matrix stiffening and COX-2 suppression. J Cell Biol. 2010;190(4):693-706. PMC2928007.

5. Shea BS and Tager AM. Role of the lysophospholipid mediators lysophosphatidic acid and sphingosine 1-phosphate in lung fibrosis. Proc Am Thorac Soc. 2012; 9(3):102-110. PMC5455616.

6. Hariri LP, Mino-Kenudson M, Shea B, Digumarthy S, Onozato M, Yagi Y, Fraire AE, Matsubara O, Mark EJ. Distinct histopathology of acute onset or abrupt exacerbation of hypersensitivity pneumonitis. Hum Path. 2012; 43(5):660-8.

7. Lagares D, Busnadiego O, García-Fernández RA, Kapoor M, Liu S, Carter DE, Abraham D, Shi-Wen X, Carreira P, Fontaine BA, Shea BS, Tager AM, Leask A, Lamas S, Rodríguez-Pascal F. Inhibition of focal adhesion kinase prevents experimental lung fibrosis and myofibroblast formation. Arthritis Rheum. 2012; 64(5):1653-64. PMC3338902.

8. Shea BS and Tager AM. Sphingolipid Regulation of Tissue Fibrosis. Open Rheumatol J. 2012; 6:123-129. PMC3395890.

9. Ahluwalia N, Shea BS, Tager AM. New Therapeutic Targets in Idiopathic Pulmonary Fibrosis: Aiming to Rein in Aberrant Wound Healing Responses. Am J Resp Crit Care Med. 2014; 190(8):867-78. PMC4299574.

10. Montesi SB, Mathai SK, Brenner LN, Gorshkova I, Berdyshev E, Tager AM, Shea BS. Docosatetraenoyl LPA is elevated in exhaled breath condensate in idiopathic pulmonary fibrosis. BMC Pulmonary Medicine. 2014;14(1):5. PMC3906883.

11. Shea BS, Sharma A, Mark EJ. Case Records of the Massachusetts General Hospital: A 58-Year-Old Woman with Shortness of Breath. NEJM. 2015; 372(18):1749-58.

12. Black KE, Berdyshev E, Bain G, Castelino FV, Shea BS, Probst CK, Fontaine BA, Bronova I, Goulet L, Lagares D, Ahluwalia N, Knipe RS, Natarajan V, Tager AM. Autotaxin activity increases locally following lung injury, but is not required for pulmonary lysophosphatidic acid production or fibrosis. FASEB J. 2016; 30(6):2435-50. PMC4871797.

13. Shea BS, Probst CK, Brazee PL, Rotile NJ, Blasi F, Weinreib PH, Black KE, Sosnovik DE, Van Cott EM, Violette SM, Caravan P, Tager AM. Uncoupling of the profibrotic and hemostatic effects of thrombin in lung fibrosis. JCI Insight. 2017;2(9). PMC5414562.

14. Lagares D, Ghassemi-Kakaroodi P, Tremblay C, Santos A, Probst CK, Franklin A, Santos DM, Grasberger P, Ahluwalia N, Montesi SB, Shea BS, Black KE, Knipe R, Blati M, Baron M, Wu B, Fahmi H, Gandhi R, Pardo A, Selman M, Wu J, Pelletier JP, Martel-Pelletier J, Tager AM, Kapoor, M. ADAM10-mediated ephrin-B2 shedding drives myofibroblast activation and organ fibrosis. Nat Med. 2017; 23(12):1405-15. PMC5720906.

15. Shea BS and Opal SM. The Role of S1PR3 in Protection from Bacterial Sepsis. Am J Resp Crit Care Med. 2017; 196(12):1500-1502.

16. Knipe RS, Probst CK, Lagares D, Franklin A, Spinney JJ, Brazee PL, Grasberger P, Zhang L, Black KE, Sakai N, Shea BS, Liao JK, Medoff BD, Tager AM. The Rho Kinase Isoforms ROCK1 and ROCK2 each Contribute to the Development of Experimental Pulmonary Fibrosis. Am J Resp Cell Mol Biol. 2017; *In press*

17. Marshall DC, Salciccioli JD, Shea BS*, Akuthota P*. Trends in Mortality from Idiopathic Pulmonary Fibrosis in the European Union: An Observational Study of the WHO mortality database from 2001 – 2013. Eur Resp J. 2018; 51(1).
**These authors contributed equally to this work*

18. Zhou Y, He CH, Yang D, Nguyen T, Kamle S, Lee C, Gochuico BR, Gahl WA, Shea BS, Lee CG, Elias JA. Galectin-3 interacts with the CHI3L1 axis and contributes to Hermansky-Pudlak Syndrome Lung Disease. J Immunol. 2018; *In press*

BOOKS AND BOOK CHAPTERS

1. Shea BS and Tager AM. Lysophospholipid Regulation of Lung Fibrosis. In: Lysophospholipid Receptors: Signaling and Biochemistry. 2013; John Wiley & Sons, Hoboken, NJ, USA.

ABSTRACTS

1. Tager AM, LaCamera P, Shea BS, Karimi-Shah BA, Campanella GS, Polosukhin V, Hart WK, Poorvu E, Blackwell TS, Xu Y, Luster AD. Mice Deficient for the Lysophosphatidic Acid Receptor LPA1 Demonstrate Reduced Fibroblast Recruitment and Reduced Pulmonary Fibrosis Post-Bleomycin Injury. American Thoracic Society International Conference; San Francisco, CA, USA; May 18-23, 2007.

2. Shea BS, LaCamera P, Hart WK, Poorvu E, Xu Y, Chun J, Luster AD, Tager AM. Pulmonary Vascular Leak Following Bleomycin Lung Injury is Dependent on the Lysophosphatidic Acid Receptor LPA1. American Thoracic Society International Conference; San Francisco, CA, USA; May 18-23, 2007.

3. Shea BS, Brooks SF, Luster AD, Tager AM. Lysophosphatidic acid induces endothelial barrier dysfunction through the receptor LPA1. American Thoracic Society International Conference; Toronto, ON, Canada; May 16-21, 2008.

4. Shea BS, Funke MF, Brooks SF, Luster AD, Tager AM. Inhibition of lysophospholipid signaling in lung fibrosis. The 15th International Colloquium on Lung and Airway Fibrosis; Sunset Beach, North Carolina, USA; September 28 - October 1, 2008. *Selected for oral presentation.*

5. Shea BS, Brooks SF, Shin HS, Chun J, and Tager AM. Loss of S1P-S1P1 signaling leads to increased mortality, pulmonary vascular leak, and fibrosis after lung injury. FASEB Summer Research Conference: Lysophospholipid Mediators in Health and Disease; Carefree, AZ, USA; June 28 - July 3, 2009. *Selected for oral presentation.*

6. Shea BS, Brooks SF, Chun J, Tager AM. Loss of endogenous S1P-S1P1 signaling through prolonged exposure to S1P1 agonists worsens vascular leak, fibrosis, and mortality after lung injury. Sixth Annual Respiratory Disease Young Investigators' Forum; Phoenix, AZ, USA; October 15-18, 2009. *Oral presentation; won first prize for basic science abstract.*

7. Shea BS, Brooks SF, Fontaine BA, Chun J, Luster AD, Tager AM. Prolonged Exposure to S1P1 Agonists Worsens Vascular Leak, Fibrosis, and Mortality after Lung Injury. American Thoracic Society International Conference; New Orleans, LA, USA; May 14-19, 2010. *Selected for oral presentation.*

8. Mathai SK, Black KE, Brazee PL, Tager AM, Shea BS. Plasma autotaxin activity and LPA levels are not elevated in patients with idiopathic pulmonary fibrosis. American Thoracic Society International Conference; San Francisco, CA, USA; May 18-23, 2012.

9. Shea BS, Fontaine BA, Brazee PL, Violette SM, Thompson BT, Christiani DC, Tager AM. S1P-S1P1 signaling promotes non-fibrotic resolution of lung injury. The 17th International Colloquium on Lung and Airway Fibrosis; Modena, Italy. *Selected for oral presentation; won Junior Investigator Award.*

10. Montesi SB, Mathai SK, Brenner LN, Gorshkova I, Berdyshev E, Tager AM, and Shea BS. Docosatetraenoyl LPA is elevated in exhaled breath condensate in idiopathic pulmonary fibrosis. Keystone Symposia Conference – Fibrosis: From Bench to Bedside; Keystone, CO, USA; March 23-28, 2014.

11. Lim SR, Ruhrmund D, Arfsten A, Dolim K, Qin X, Buckman BO, Shea BS, Tager AM, Seiwert SD, and Kossen K. Impact of LPA and LPA1 Receptor Antagonists on Gene and Protein Expression in Human Primary Cells. American Thoracic Society International Conference; San Diego, CA, USA; May 16-21, 2014.

12. Montesi SB, Mathai SK, Brenner LN, Gorshkova I, Berdyshev E, Tager AM, and Shea BS. Docosatetraenoyl LPA is elevated in exhaled breath condensate in idiopathic pulmonary fibrosis. American Thoracic Society International Conference; San Diego, CA, USA; May 16-21, 2014.

13. Montesi SB, Pardo A, Selman M, Shea BS, Tager AM, and Lagares D. Soluble Ephrin-B2 is a Novel Biomarker for Idiopathic Pulmonary Fibrosis. American Thoracic Society International Conference; Denver, CO, USA; May 15-20, 2015.

14. Black KE, Bain G, Berdyshev E, Castelino FV, Shea BS, Probst CK, Fontaine B, Lagares D, Ahluwalia N, Knipe RS, Natarajan V, and Tager AM. Autotaxin-independent lysophosphatidic acid (LPA) generation in pulmonary fibrosis. American Thoracic Society International Conference; Denver, CO, USA; May 15-20, 2015.

15. Knipe RS, Franklin A, Shea BS, Lagares D, Ahluwalia N, Liao JK, and Tager AM. Differing Requirements for the ROCK Isoforms ROCK1 and ROCK2 for Epithelial Cell Apoptosis, Fibroblast Migration and Myofibroblast Differentiation in Pulmonary Fibrosis. American Thoracic Society International Conference; Denver, CO, USA; May 15-20, 2015.

16. Shea BS, Brazee PL, Probst CK, Rotile NJ, Van Cott EM, Weinreb PH, Violette SM, Sosnovik DE, Caravan P, Tager AM. Vascular Leak Driven Lung Fibrosis Reveals an Uncoupling of the Profibrotic and Hemostatic Effects of Thrombin. American Thoracic Society International Conference; Denver, CO, USA; May 15-20, 2015.

17. Knipe RS, Probst CK, Griffith JW, Shea BS, Liao JK, Tager AM. Critical Importance of the ROCK Isoforms ROCK 1 and ROCK 2 for Vascular Leak and Dendritic Cell Recruitment in Pulmonary Fibrosis. American Thoracic Society International Conference; San Francisco, CA, USA: May 13-18, 2016.

INVITED PRESENTATIONS

International

2008 Inhibition of Lysophospholipid Signaling in Lung Fibrosis / Plenary Talk (abstract)
International Colloquium on Lung and Airway Fibrosis; Sunset Beach, NC

2009 Loss of S1P-S1P1 Signaling Leads to Increased Mortality, Pulmonary Vascular Leak, and Fibrosis after Lung Injury / Plenary Talk (abstract)
FASEB Summer Research Conference: Lysophospholipid Mediators in Health and Disease; Carefree, AZ

2010 Prolonged Exposure to S1P1 Agonists Worsens Vascular Leak, Fibrosis, and Mortality after Lung Injury / Mini-Symposium (abstract)
American Thoracic Society International Conference; New Orleans, LA

2011 Worsening Pulmonary Fibrosis By Worsening Vascular Leak: Inhibition of S1P Signaling After Lung Injury / Scientific Symposium (Invited talk)
American Thoracic Society International Conference; Denver, CO

2011 Leaky Lungs: Linking Acute Lung Injury and Fibrosis / Invited talk
Gordon Research Conference: Lung Development, Injury and Repair; Newport, RI

2012 S1P-S1P1 Signaling Promotes Non-Fibrotic Resolution of Lung Injury / Plenary Talk (abstract)
International Colloquium on Lung and Airway Fibrosis; Modena, Italy

2013 Vascular Leak Promotes the Fibrotic Response to Lung Injury / Scientific Symposium (Invited talk)
American Thoracic Society International Conference; Philadelphia, PA

2015 Vascular Leak-Driven Lung Fibrosis Reveals an Uncoupling of the Profibrotic and Hemostatic Effects of Thrombin / Mini-Symposium (abstract)
American Thoracic Society International Conference; Denver, CO

2017 Persistent Vascular Leak Promotes a Fibrotic Response to Lung Injury / Invited talk
19th Takeda Science Foundation Symposium on Bioscience; Osaka, Japan

2017 Pro: The Endothelium is Key to ILD / Invited Talk (Pro/Con Debate)
American Thoracic Society International Conference; Washington, DC

National

2008 Fibroblast in Blood and Lung Regeneration: Fibroblast Recruitment to the Injured Lung in the Pathogenesis of Pulmonary Fibrosis / Basic and Clinical Science Symposium (Invited talk)
American Society of Nephrology Renal Week; Philadelphia, PA

2009 Loss of Endogenous S1P-S1P1 Signaling through Prolonged Exposure to S1P1 Agonists Worsens Vascular Leak, Fibrosis, and Mortality after Lung Injury / Plenary Talk (abstract)
Respiratory Disease Young Investigators' Forum; Phoenix, AZ

2017 Idiopathic Pulmonary Fibrosis
Boehringer Ingelheim Visiting Professor Program – SUNY Buffalo / Jacobs School of Medicine; Buffalo, NY

2017 Connecting the dots between vascular leak and lung fibrosis
Pulmonary and Critical Care Research Conference – Northwestern Medicine / Feinberg School of Medicine; Chicago, IL

<u>Regional</u>

2009 Lysophospholipid signaling in lung injury: connecting the dots between vascular leak and fibrosis / Grand Rounds
Harvard Pulmonary and Critical Care Fellowship, MGH; Boston, MA

2011 Sphingosine 1-Phosphate Signaling in Lung Injury: Connecting the Dots Between Vascular Leak and Fibrosis / Invited talk
Merck Research Laboratories Respiratory Symposium; Boston, MA (Merck)

2013 Hypersensitivity Pneumonitis: More Common than We Think?
Harvard Medical School / Massachusetts General Hospital Pulmonary and Critical Care Medicine CME Course

2013 Interstitial Lung Diseases
Harvard Medical School / Massachusetts General Hospital Internal Medicine CME Course

2014 Connecting the dots between vascular leak and lung fibrosis
Brown Pulmonary Research Seminar, Rhode Island Hospital; Providence, RI

2014 Hypersensitivity Pneumonitis: More Common than We Think?
Harvard Medical School / Massachusetts General Hospital Pulmonary and Critical Care Medicine CME Course

2014 Interstitial Lung Diseases
Harvard Medical School / Massachusetts General Hospital Internal Medicine CME Course

2015 Shifting Paradigms and Emerging Therapies: A New Era in Pulmonary Fibrosis
Medical Grand Rounds – Brown / Alpert Medical School; Providence, RI

2015 Shifting Paradigms and Emerging Therapies in IPF
Chest Conference – Brown / Alpert Medical School; Providence, RI

2015 Interstitial Lung Diseases
Harvard Medical School / Massachusetts General Hospital Internal Medicine CME Course

2015 Idiopathic Pulmonary Fibrosis: What We Know and What We Need to Know
ILD Collaborative – Symposium for Those Living with IPF; Boston, MA

2016 Where's the Lung? Rethinking Autoimmune Muscle Disease
Chest Conference – Brown / Alpert Medical School; Providence, RI

2016 Emerging Therapies for IPF
Facing IPF Together: A Case-Based Team Approach; Newton, MA

2016 Where's the Lung? Rethinking Autoimmune Muscle Disease
Immunology Rounds and Lecture Series – Brown / Alpert Medical School; Providence, RI

2016 Adjunctive Steroids for Hospitalized Community-Acquired Pneumonia: Are We There Yet?
Chest Conference – Brown / Alpert Medical School; Providence, RI

2017 New Directions for IPF Treatment: Update on Clinical Trials
Dr. Andrew Tager Symposium for those Living with IPF; Dedham, MA

2017 Emerging Treatments for Pulmonary Fibrosis: Clinical Trials
American Lung Association Lung Force Expo; Warwick, RI

GRANTS

Completed:

2003-04 Genetic Vaccine for Yersinia pestis (Crystal)
Empire Clinical Research Investigator Award
Role: Research Fellow

2006-08 Institutional Training Grant in Lung Cell and Molecular Biology (Hales)
T32-HL007874
NIH/NHLBI
Role: Research Fellow

2008-09 Lysophosphatidic acid links lung injury to fibrosis (Shea)
Fellows Career Development Award
American Thoracic Society
Role: PI ($50,000)

2009-10 Institutional Training Grant in Lung Cell and Molecular Biology (Medoff)
T32-HL007874
NIH/NHLBI
Role: Research Fellow

2011-14 Protective Role of the S1P-S1P_1 Pathway in Pulmonary Fibrosis (Tager)
R01 HL108975
NIH/NHLBI
Role: Co-Investigator

2011-14 The role of αv-containing integrins in TGF-β-driven skin fibrosis and vascular leak-driven lung fibrosis (Tager)
Sponsored Research Agreement
Biogen Idec
Role: Co-Investigator

2013-14 Preclinical and Translational Studies of LPA and LPA1 in IPF and Scleroderma (Tager)
Sponsored Research Agreement
InterMune, Inc.
Role: Co-Investigator

2010-16 The role of sphingosine 1-phosphate in lung injury and fibrosis (Shea)
NCE K08 HL105656
NIH/NHLBI
Role: PI ($635,000)

Ongoing:

2014-18 Translational Research Program in Interstitial Lung Diseases (Shea)
Departmental Funding
Brown University / Alpert Medical School Department of Medicine
Role: PI ($300,000)

2015- Phase II, Randomized, Double-Blind, Placebo-Controlled Study to Assess the Efficacy and Safety of Lebrikizumab in Patients with Idiopathic Pulmonary Fibrosis
F. Hoffman-La Roche Ltd
Role: Site PI

2017-18 CHI3L1 and its Receptors in Pulmonary Fibrosis (Zhou and Shea)
Rhode Island Center for Clinical and Translational Science
Role: Co-PI ($75,000)

UNIVERSITY TEACHING ROLES

2004 Genetics (small group facilitator) Weill Cornell Medical College

	1st year medical students	2 hrs per week for 8 weeks
2007	Respiratory/Cardiovascular Pathophysiology (small group tutorial) 2nd year medical students	Harvard Medical School 4 hrs per week for 3 weeks
2015-	Pulmonary Pathophysiology 2nd year medical students	Brown-Alpert Medical School 1 lecture per year

HOSPITAL TEACHING ROLES

Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)

2002	Morning Report Junior and Senior Internal Medicine Residents	New York-Presbyterian Hospital (Cornell) Led two 1-hour sessions per week for four months
2005-06	MICU Lecture Series Internal Medicine Interns and Residents	Harvard PCCM Fellowship Two 1-hour lectures per week for two months
2011	Bread and Butter Rheumatology Series: Connective tissue disease-associated interstitial lung diseases Rheumatology fellows	MGH Single lecture
2013-14	Noon Conference Series: Interstitial Lung Diseases Internal Medicine Residents	MGH One lecture per year
2013-14	Fellows' Core Curriculum Series: Hypersensitivity Pneumonitis Pulmonary and Critical Care Fellows	MGH One lecture per year
2013-14	Fellows' Core Curriculum Series: Idiopathic Pulmonary Fibrosis Pulmonary and Critical Care Fellows	MGH One lecture per year
2015-	Fellows' Lecture Series	Brown Pulmonary and Critical Care 1-3 lectures per year
2017	Noon Conference Series: Interstitial Lung Diseases	Brown Internal Medicine Residency
2017	Emergency Medicine Lecture Series:	Brown Emergency Medicine

	Interstitial Lung Diseases	Residency

Clinical Supervisory and Training Responsibilities

2001-03	Supervision of medical students and internal medicine interns and residents / New York Presbyterian Hospital (Cornell) Internal Medicine Residency	100% effort for 2 years
2002	Assistant Chief Resident / New York Presbyterian Hospital (Cornell) Internal Medicine Residency	100% effort for four months
2004-06	Supervision of medical students and internal medicine residents on Medical ICU and Pulmonary Consult rotations / MGH, BWH, and BIDMC	12 months total
2009-14	Supervision of medical students, internal medicine residents, and pulmonary and critical care fellows in the Medical Intensive Care Unit / MGH	4-6 weeks per year
2009-14	Supervision of pulmonary and critical care fellows in pulmonary function test (PFT) interpretation / MGH	4 weeks per year
2009-14	Ambulatory pulmonary clinic preceptor / MGH	2-4 clinic sessions per year
2011-14	Supervision of medical students, internal medicine residents, and pulmonary and critical care fellows in the Cardiac Intensive Care Unit / MGH	2 weeks per year
2014-	Supervision of medical students, internal medicine residents, and pulmonary and critical care fellows in the Medical Intensive Care Unit and on the Pulmonary Consult service / RIH	8 weeks per year

Laboratory and Other Research Supervisory and Training Responsibilities

2007-14	Supervision and training post-doctoral	5% overall effort. Daily research

	research fellows / Tager lab, MGH Center for Immunology and Inflammatory Diseases	mentorship of more junior fellows/faculty in Tager lab

Formally Supervised Trainees

2013-14 Sydney Montesi, MD / Pulmonary and Critical Care Fellow, Harvard/MGH
Primary mentor for research training; published first manuscript together in 2014.

2015- Eduardo Nunez, MD / Internal Medicine Resident, Brown University
Career guidance/mentorship

2016- Ryan Bohle, MD / Pulmonary and Critical Care Fellow, Brown University
Primary research mentor – Incidence, clinical characteristics and outcomes of interstitial pneumonia with autoimmune features (IPAF)