

Name Neil W. Schluger

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Columbia University College of Physicians and Surgeons
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Date of birth July 5, 1959

Place of birth Brooklyn, New York

Education 1981 B.A. Harvard University
1985 M.D. University of Pennsylvania

Postdoctoral training

1985-1988	Intern and resident, Internal Medicine	St. Luke's Hospital New York, NY
1988-1989	Chief Resident Internal Medicine	St. Luke's Hospital New York, NY
1989-1992	Fellow Pulmonary and Critical Care Medicine	The New York Hospital/Cornell Medical Center
1991-1992	Guest Investigator	Rockefeller University (Laboratory of Medical Biochemistry) New York, NY
1992 (Jan.-March)	Visiting Fellow	Pulmonary Branch National Heart, Lung and Blood Institute, (NIH), Bethesda, MD

Licensure and certification

1986	NYS License #171056
1989	Board certification, Internal Medicine
1992	Board certification, Pulmonary Disease (recertified 2002)

1993 Board certification, Critical Care Medicine

Academic appointments

1991-1992	Instructor	Cornell University Medical College
1992-1993	Instructor	New York University School of Medicine
1993-1997	Assistant Professor of Medicine	New York University School of Medicine
1997-1998	Associate Professor of Medicine	New York University School of Medicine
1998-2007	Associate Professor of Medicine	Columbia University College of Physicians and Surgeons
1998-2007	Associate Professor of Epidemiology and Environmental Health Sciences	Columbia University Mailman School of Public Health
2007-	Professor of Medicine, Epidemiology, and Environmental Health Sciences	Columbia University College of Physicians and Surgeons/Mailman School of Public Health

Clinical appointments

1991-1992	Assistant Attending	The New York Hospital
1992-1998	Assistant Attending	NYU Medical Center
1992-1998	Assistant Attending	Bellevue Hospital Center
1992-1998	Director, Chest Clinic	Bellevue Hospital Center
1992-1998	Director, TB Directly Observed Therapy Clinic	Bellevue Hospital Center
1998-2000	Chief, Clinical Pulmonary Medicine	Division of Pulmonary, Allergy, and Critical Care Medicine Columbia University College of Physicians and Surgeons Columbia Presbyterian Medical Center
2000-	Clinical Chief, Division of Pulmonary, Allergy, and Critical Care Medicine	Columbia University College of Physicians and Surgeons Columbia Presbyterian Medical Center
July 2004-March 2005	Acting Chief, Division of Pulmonary, Allergy, and	Columbia University College of Physicians and Surgeons

	Critical Care Medicine	Columbia University Medical Center
April 2005-	Chief, Division of Pulmonary, Allergy, and Critical Care Medicine	Columbia University College of Physicians and Surgeons Columbia University Medical Center

Memberships, offices, and committee assignments in professional societies

American Heart Association/New York
City Affiliate:

Committee on Public Policy and
Governmental Affairs, 1991-1996
Ad Hoc Committee on In-hospital
Resuscitation, 1991

American Lung Association of the City of New York:

Board of Directors, 1995-
Committee on Tuberculosis 1993-1994
Committee on Education, 1995-1997
Council of Lung Associations 1997-
Vice-Chairman, 1997-1998
Chairman, 1998-1999
Tobacco Control Committee
Chairman, 1998-1999
Governmental Affairs Committee
Chairman, 1999-2006
Annual Life and Breath Awards Dinner Committee
Chairman, 2004
Chairman-Elect of the Board of Directors, 2004-2006
Chairman of the Board of Directors, 2006-2008

American Thoracic Society:

Task Force on Rapid Diagnostic Tests for Tuberculosis, 1996-1998
Member, planning committee
Co-chair, Clinical Issues Working Group
Assembly on Microbiology, Tuberculosis, and Pulmonary Infections
Member, Program Planning Committee, 1998-2002
Chair-elect, Program Planning Committee, 1999-2000
Chair, Program Committee, 2000-2001
Member, Long Range Planning Committee, 1999-2002
Member, Nominating Committee, 2003-
ATS International Conference Program Committee, 1999-2001

Tuberculosis Trials Consortium

Publications and Presentations Committee Chair, 1996-2000
Steering Committee Chairman 2000-

Centers for Disease Control and Prevention Expert Panel on Use of Interferon
Gamma Release Assays for the Diagnosis of Tuberculosis
Chairman 2005, 2008

Stony Wold-Herbert Fund Foundation

Member, Board of Directors, 2004-

New York State Department of Health Task Force on Life and the Law
Working Group on Ventilator Allocation During Influenza Pandemic,
2007 (member)

World Lung Foundation
Member, Board of Directors, 2008-
Chief Scientific Officer, 2009-

American Society of Transplantation Donor Derived Consensus Panel on
Transmission of Tuberculosis and West Nile Virus in Solid Organ Transplantation,
2010

Memberships

American Society of Clinical Investigation
American Thoracic Society
American College of Chest Physicians
American Lung Association of the City of New York

Awards and Honors

1979-1980	John Harvard Scholarship
1990-1992	Stony Wold-Herbert Fund Foundation Fellowship for Pulmonary Research
1993-1994	National Research Service Award (individual), National Institute of Allergy and Infectious Diseases (NIH)
1994-1999	Tuberculosis Academic Award, National Heart, Lung, and Blood Institute, NIH
1994	Fellow, American College of Chest Physicians
1999	Mid-Career Investigator Award in Patient-Oriented Research, National Heart, Lung, and Blood Institute, National Institutes of Health
2001-	listed in "New York's Top Doctors" (Castle Connolly Medical)
2001-	listed in "America's Top Doctors" (Castle Connolly Medical)
2002	elected, American Society of Clinical Investigation
2009	Ewig Clinical Scholar Award for Outstanding Teaching, Department of Medicine, Columbia University College of Physicians and Surgeons

Record of Grant Support

Current

Centers for Disease Control and Prevention Tuberculosis Epidemiology Studies Consortium: Evaluation of Interferon Gamma Release Assays in the Diagnosis of Latent Tuberculosis Infection in Health Care Workers. 10/1/09-9/30/18. Role: Principal investigator. Total support: \$4,300,000

NHLBI/NIH (K24 HL004074) Mid-career Investigator Award in Patient –Oriented Research, 9/99-01/10. Role: principal investigator (50% effort). Annual support \$135,119. (Total support: \$1, 351,190)

Empire Clinical Research Investigator Program (New York State), 7/1/04-6/30/06. (Provides salary support for a young clinical investigator, Dr. Charles Powell) in a mentored relationship with the PI.) Role on project: Principal Investigator. Total support: \$120,000

NHLBI/NIH, 9/30/03-9/29/08. Tuberculosis Curriculum Consortium. Role on project: Coordinator, Northeast Regional Curriculum center (10% effort). Total support: \$271,444

NHLBI/NIH. Training in Lung Translational Research, 7/1/04-6/30/09 (T32-HL072739; Institutional Training Grant). Role on project: Principal Investigator. Total support: \$1,583,757 (\$230,119/year)

Centers for Disease Control and Prevention, (United States Public Health Service): Tuberculosis Clinical Trials Consortium, 10/99-9/10 (contract # 200-1999-00103). Role on project: principal investigator, Columbia University site (10% effort). Annual support: \$278,500; Total support: \$2,785,000

NIEHS/NIH 2 P30 ES009089-06, 4/1/98-3/31/08 (PI:). Center for Environmental Health in Northern Manhattan. Role on project: Director, Respiratory Disease Core (10% effort). Annual budget \$999,953

completed

National Heart, Lung, and Blood Institute, National Institutes of Health (N01-HR-96145): All-trans retinoic acid in the treatment of emphysema, 10/99-12/04. Role: principal investigator. Total support: \$1,959,476

Intermune Pharmaceuticals, Inc. Phase III Trial of interferon-gamma in the treatment of idiopathic pulmonary fibrosis, 1/01-1/03. Role on project: principal investigator. Total support \$110,500

National Heart, Lung, and Blood Institute, National Institutes of Health (RO1 HL55791): Lung Specific Delivery Systems for Tuberculosis Treatment, 10/95-9/00. Role: principal investigator. Total support: \$1,166,256

National Institutes of Health (National Heart, Lung, and Blood Institute (K07 HL03030): Tuberculosis Academic Award 10/94-9/99. Role: principal investigator. Total support: \$452,520

National Institutes of Health (NRSA 1 F32 AI08743-01): National Research Service Award, 1/1/93--9/30/94 Total support: \$24,536

Centers for Disease Control Contract No. 200-93-0691, (United States Public Health Service): Clinical Trials in the Treatment of Tuberculosis in Patients with HIV Infection and for Those Without HIV Infection, 9/27/93-9/27/98. Role: principal investigator for NYU site. Total support: \$1,101,045

Robert Wood Johnson Foundation: A Shared Responsibility Model for the Prevention and Control of Tuberculosis, 1/1/94-9/1/97. Role: principal investigator. Total support: \$1,330,000

Departmental and University Committees

Principal hospital and clinical service responsibilities

1992-1998 Bellevue Hospital:
 Attending physician, Inpatient Chest Service
 Attending physician, Pulmonary Consult Service
 Attending physician, Medical Intensive Care Unit

Also, on many occasions: Residents' morning report (at Bellevue and Tisch Hospitals), housestaff conferences (at Bellevue and Tisch Hospitals)

1998- NYPH/Columbia University Medical Center
 Member, Intern Selection Committee, Department of Medicine
 Member, NYPH Credentials Committee 2004-2006

Major administrative responsibilities and committees

1992-1998 Ambulatory Care Committee, Bellevue Hospital Center
 1992-1998 Director, Bellevue Hospital Chest Clinic
 1993-1998 Director, Bellevue TB Directly Observed Therapy Clinic
 1997-1998 Director, Pulmonary and Critical Care Fellowship Training Program

1998-2000 Chief, Clinical Pulmonary Medicine,
 Columbia Presbyterian Medical Center of New York
 2000- Clinical Chief, Division of Pulmonary, Allergy, and
 Critical Care Medicine, Columbia Presbyterian Medical
 Center

2005- Chief, Division of Pulmonary, Allergy, and Critical Care
 Medicine, Columbia Presbyterian Medical Center

2004- Committee on Appointments and Promotions, Department
 of Epidemiology, Columbia University Mailman School of
 Public Health

- 2004- Chair, Institutional Review Board 3, Columbia University Medical Center
- 2007- Committee on Promotions, Department of Medicine, Columbia University College of Physicians and Surgeons
- 2008- Columbia University Earth Institute Cross-Cutting Initiative Steering Committee Member, 2008-

Teaching responsibilities

New York University School of Medicine, 1992-1998

Physical diagnosis, 1st year students

Physiology (1st year), small group leader, pulmonary section

Introduction to Medicine (2nd year pathophysiology course) pulmonary section: small-group leader, lecturer

Third-year medicine clerkship: preceptor for ambulatory care rotations in chest clinic

Preceptor, project AHEAD (supervise research projects of summer students interested in medical careers)

Columbia University College of Physicians and Surgeons

Course Director for Pulmonary Section 2nd yr. Pathophysiology (formerly Abnormal Human Biology), (enrollment: 150 students), 1998-

Small group section leader, pulmonary section, 2nd year pathophysiology (enrollment: 20-25), 1998-

Pulmonary Consultation Service, one month/year 1998-

AIDS/TB Inpatient ward service, one month/year, 1998-

Residents' morning report, 1-2 times/month

Residents' noon conference, 3 times/year

Ambulatory Care Report, once per month, 1998-

Columbia University Mailman School of Public Health,

Course Co-Director, Epidemiology and Control of Tuberculosis, (enrollment: 20-25), 1999-

Thesis Sponsor*/Reader (all in Epidemiology):

Elvin Geng, M.P.H., 2002*
 Roxana Rustomjee, Ph.D., 2004
 Cynthia Driver, Ph.D., 2005*
 Elizabeth Kaufman, Ph.D., 2005
 Ethan Bodle, MD, MPH, 2005*
 Maggie Whalen, MPH 2005*
 Tessa Scott, MPH 2006
 Nikolas Wada, MPH 2006*
 Anne Stone, MPH (October 2006)
 Barun Mathema Ph.D.* (June 2009)
 Magdalena Kendall (MPH, June 2009)

Columbia University Faculty of Arts and Sciences
 Public Health module (2 lectures) in “Science and Sustainable Development” (course EESC W2330), Spring 2008

Other Professional Activities

- 1993 NIH-NIAID Special Review Committee: Tuberculosis Vaccine Development
- 1993 NIH-NIAID Special Review Committee: Basic Biology of Tuberculosis
- 1997 Centers for Disease Control and Prevention (Division of Tuberculosis Elimination): Ad hoc committee on tuberculosis research and treatment issues in patients with HIV infection
- 1998- Centers for Disease Control and Prevention: Tuberculosis Trials Consortium (TBTC)
 Chair, Publications and Presentations Committee, 1998-2000
 Member, Executive Advisory Group, 1998-
 Chair, Steering Committee, 2000-

NIH-Division of Research Grants
 Microbiological and Immunological Sciences Special Emphasis Panel (AARR6 Study Section), ad hoc

NIH-NIAID Special Emphasis Panel (Study Section)
 International Collaborations in Infectious Disease Research

- 1999- Columbia University-Ben Gurion University (Israel) Combined M.D. Program in International Health, Admissions Committee

- 2003 NIH/NHLBI Special Emphasis Panel: K08 reviews, ad hoc
- 2003- Committee on Appointments and Promotions, Department of Epidemiology, Mailman School of Public Health
- 2003- Infectious Diseases Curriculum Committee, Department of Epidemiology, Mailman School of Public Health
- 2005 NIAID/NIH Study Section ZAI1 GSM-M, “International Collaborations in Infectious Disease Research”
- 2005 NIH/NIAID Special Emphasis Panel ZaI1-AC-M-S2
- 2005 Centers for Disease Control and Prevention (CDC)
Chair, Expert Panel Consultation on use of QFT-2 for diagnosis of latent tuberculosis infection
- 2006 NIH-NIAID Special Emphasis Panel
Clinical Trials Planning Grants (R34)
- 2008 Centers for Disease Control and Prevention (CDC)
Chair, Expert Panel Consultation on use of QFT-2 for diagnosis of latent tuberculosis infection
- 2008 American Museum of Natural History Center for Biodiversity and Conservation Annual Spring Symposium
Member, Steering Committee
- 2009-2013 Member, Microbiology and Infectious Diseases Study Section, National Institutes of Health/National Institute of Allergy and Infectious Diseases (NIH-NIAID)
- 2010 National Institute of Allergy and Infectious Diseases Special Emphasis Panel ZAI1 TS-M M2 1, U01 R34 Review (Panel Chairman)

Editorial boards

Editorial board membership:

Chest 2000-2005; 2010-1015
Respiratory Research
Encyclopedia of Respiratory Medicine

ad hoc reviewer for:

The Lancet
Archives of Internal Medicine
New England Journal of Medicine
Journal of Clinical Investigation

JAMA
 American Journal of Respiratory and Critical Care Medicine
 Chest
 Emerging Infectious Diseases
 European Respiratory Journal
 Journal of Infectious Diseases
 Clinical Infectious Diseases
 Pediatrics
 Tubercle and Lung Disease
 International Journal of Tuberculosis and Lung Disease
 American Journal of Public Health
 International Journal of Infectious Diseases
 Infection
 Journal of Acquired Immunodeficiency Syndromes and Human
 Retrovirology
 Journal of Public Health Management and Practice
 Clinical and Vaccine Immunology

Publications

original reports

Schluger N, Sepkowitz K, Armstrong D, Bernard E, Rifkin M, Cerami A, and Bucala R. Detection of *Pneumocystis carinii* in serum of AIDS patients with *Pneumocystis* pneumonia by the polymerase chain reaction. J Protozool 38(6): 240S-242S, 1991

Schluger N, Godwin T, Sepkowitz K, Armstrong D, Rifkin M, Bernard E, Cerami A, and Bucala R. Application of DNA amplification to pneumocystosis: presence of serum *Pneumocystis carinii* DNA during human and experimentally induced *Pneumocystis carinii* pneumonia. J Exp Med 1992; 176: 1327-1333

Sepkowitz K, **Schluger N**, Godwin T, Cerami A, Bucala R. DNA Amplification in experimental pneumocystosis: characterization of serum *P. carinii* DNA and potential *P. carinii* carrier states. J Inf Dis 1993; 168 421-426

***Schluger N**, Henschke C, King T, Russo R, Binkert B, Rackson M, Hayt D. Approaches to the diagnosis of pulmonary embolism at a large teaching hospital. J Thoracic Imaging 1994; 9: 180-184

Forni A, **Schluger N**, Roberts R. Severe measles pneumonitis in adults: evaluation of clinical characteristics and therapy with intravenous ribavirin. Clinical Inf Dis 1994; 19: 454-462

***Schluger N**, Kinney D, Harkin T, Rom W. Clinical utility of the polymerase chain reaction in the diagnosis of infections due to *Mycobacterium tuberculosis*. Chest 1994; 105: 1116-1121

***Schluger N**, Condos R, Lewis S, Rom WN. DNA amplification of *Mycobacterium tuberculosis* from peripheral blood of patients with pulmonary tuberculosis. Lancet 1994; 344: 232-233

***Schluger** N, Ciotoli C, Cohen D, Johnson H, Rom WN. Comprehensive tuberculosis control for patients at high risk for non-compliance. *American Journal of Respiratory and Critical Care Medicine*, 1995; 151: 1486-1490

Park M, Davis AL, **Schluger** N, Cohen H, Rom WN. Outcome of MDR-TB Patients, 1983-1993: prolonged survival with appropriate therapy. *Am J Respir Crit Care Med* 1996; 153: 317-324

***Schluger** N, Lawrence R, McGuinness G, Park M, Rom WN. Multidrug resistant tuberculosis in children. *Pediatric Pulmonology* 1996; 21: 138-142

*Condos R, McClune A, Rom WN, **Schluger** NW. Peripheral blood based PCR assay to identify patients with active pulmonary tuberculosis. *Lancet* 1996; 347: 1082-1085

Leibert E, **Schluger** NW, Bonk S, Rom WN. Spinal tuberculosis in patients with human immunodeficiency virus infection: clinical presentation, therapy, and outcome. *Tubercle and Lung Disease* 1996; 77: 329-335

Catanzaro A, Davidson B, Fujiwara P, Goldberger M, Gordin F, Salfinger M, **Schluger** NW, Sierra M, Woods GL. Proceedings of an American Thoracic Society Workshop, "Rapid Diagnostics Tests for Tuberculosis. What is the Appropriate Use?" *Am J Respir Crit Care Med*, 1997, 155: 1804-1814

***Schluger** NW, Huberman R, Wolinsky N, Dooley R, Rom WN, Holzman R. Tuberculosis infection and disease among persons seeking social services in New York City. *International Journal of Tuberculosis and Lung Disease*, 1997; 1: 31-37

*Condos R, Rom WN, **Schluger** NW. Treatment of multidrug-resistant pulmonary tuberculosis with interferon- γ via aerosol. *The Lancet* 1997; 349: 1513-1515

*O'Brien JK, Sandman LA, Kreiswirth BN, Rom WN, **Schluger** NW. DNA fingerprints from *M. tuberculosis* isolates of patients confined for noncompliance with therapy show frequent clustering. *Chest* 1997; 112: 387-392

Friedman CR, Quinn GC, Kreiswirth B, Perlman D, Salomon N, **Schluger** N, Lutfey M, Poltoratskaia N, Berger J, Riley LW. Epidemiologic and biologic factors associated with widespread dissemination of a single drug-susceptible strain of *Mycobacterium tuberculosis*. *J Infect Dis* 1997; 176: 478-484

Epstein MD, **Schluger** NW, Davidow AL, Bonk S, Rom WN, Hanna B. Time to detection of *M. tuberculosis* in sputum culture correlates with outcome in patients receiving treatment for pulmonary tuberculosis. *Chest* 1998; 113: 379-386

*Condos R, Liu YM, Rom NW, **Schluger** NW. Local immune responses correlate with presentation and outcome in tuberculosis. *American Journal of Respiratory and Critical Care Medicine* 1998; 157: 729-735

Klingler K, Brandli O, Doerfler M, **Schluger** N, Rom WN. Valvular endocarditis due to *Mycobacterium tuberculosis*. *Int J Tuberc Lung Dis*, 1998; 2:435-437

*Divinagracia R, Harkin T, Bonk S, **Schluger** NW. Screening by subspecialists to reduce unnecessary test ordering in patients evaluated for tuberculosis. *Chest*, 1998; 114: 681-684

Sandman L, **Schluger** NW, Davidow A, Bonk S. Risk factors for rifampin mono-resistant tuberculosis: a case control study. *Am J Respir Crit Care Med*, 1999; 159: 468-472.

***Schluger** NW, Huberman R, Holzman R, Rom WN, Cohen DI. Screening for infection and disease as a tuberculosis control measure among indigents in New York City, 1994-1997, *Int J Tuberc Lung Dis* 1999; 3: 281-286

Vernon A, Burman W, Benator D, Khan A, Bozeman L and the **Tuberculosis Trials Consortium****. Acquired rifamycin mono-resistance among patients with HIV-related tuberculosis treated with supervised once weekly rifapentine and isoniazid. *Lancet* 1999; 353:1843-47

Davidson H, **Schluger** NW, Feldman PH, Valentine DP, Telzak EE, Laufer FN. The effects of increasing incentives on adherence to tuberculosis directly observed therapy. *Int J Tuberc Lung Dis* 2000; 9: 860-865

*Raju B, **Schluger** NW. Significance of respiratory isolates of *Mycobacterium avium* complex in HIV-positive and HIV-negative patients. *Int J Infect Dis*. 2000; 4:134-139.

Johnson S, Brusasca P, Lyashchenko K, Spencer JS, Wiker HG, Bifani P, Shashkina E, Kreiswirth B, Harboe M, **Schluger** N, Gomez M, Gennaro ML. Characterization of the secreted MPT53 antigen of *Mycobacterium tuberculosis*. *Infect Immun*. 2001; 69: 5936-9.

Chan ED, Chan J, **Schluger** NW. What is the role of nitric oxide in murine and human host-defense against tuberculosis? Current knowledge. *Am J Respir Cell Mol Biol* 2001; 25: 606-612.

N Bock, T Sterling, CD Hamilton, C Pachucki, YC Wang, DS Conwell, A Mosher, M Samuels, Vernon A, and the **Tuberculosis Trials Consortium****. A prospective, randomized, double-blind study of the tolerability of rifapentine 600 mg, 900 mg and 1200 mg plus isoniazid in the continuation phase of tuberculosis treatment. *Amer J Resp Crit Care Med* 2002; 165: 1526-1530.

*Geng E, Kreiswirth B, Driver C, Li J, Burzynski J, Della Latta P, LaPaz A, **Schluger** NW. Changes in tuberculosis transmission in New York City from 1990-1999: implications for tuberculosis control and elimination practices. *New Engl J Med*, 2002; 346: 1453-1458

***Schluger** NW, Perez D, Liu YM. Reconstitution of immune responses to tuberculosis in HIV-infected patients receiving anti-retroviral therapy. *Chest* 2002; 122:597-602

Tuberculosis Trials Consortium**. Rifapentine and isoniazid once a week versus rifampicin and isoniazid twice a week for treatment of drug-susceptible pulmonary tuberculosis in HIV-negative patients: a randomised clinical trial. *The Lancet* 2002; 360: 528-534

Weiner M, Burman W, Vernon A, Benator D, Peloquin CA, Khan A, Weis S, King B, Shah N, Hodges T, and the **Tuberculosis Trials Consortium****. Low isoniazid concentrations and outcome of tuberculosis treatment with once-weekly isoniazid and rifapentine. *Am J Respir Crit Care Med* 2003; 167:1341-7.

Burman W, Breese P, Weis S, Bock N, Bernardo J, Vernon A, and the **Tuberculosis Trials Consortium****. The effects of local review on informed consent documents from a multicenter clinical trials consortium. *Controlled Clinical Trials* 2003;24:245-55.

Ganesh Raghu, M.D., Kevin K. Brown, M.D., Williamson Z. Bradford, M.D., Ph.D., Karen Starko, M.D., Paul W. Noble, M.D., David A. Schwartz, M.D., Talmadge E. King, Jr., M.D., for the **Idiopathic Pulmonary Fibrosis Study Group*****. A Placebo-Controlled Trial of Interferon Gamma-1b in Patients with Idiopathic Pulmonary Fibrosis. *N Engl J Med* 2004; 350: 125-133

Condos R, Hull FP, **Schluger NW**, Rom WN, Smaldone GC. Regional deposition of aerosolized interferon-gamma in pulmonary tuberculosis. *Chest* 2004; 125: 2146-2155

Jasmer RM, Bozeman L, Schwartzman K, Cave MD, Saukkonen JJ, Metchock B, Khan A, Burman WJ and **The Tuberculosis Trials Consortium****. Recurrent tuberculosis in the United States and Canada: relapse or reinfection? *Am J Respir Crit Care Med* 2004; 170: 160-166

Bozeman L, Burman W, Metchock B, Welch L, Weiner M, and the **Tuberculosis Trials Consortium****. Fluoroquinolone Susceptibility among Mycobacterium tuberculosis Isolates from the United States and Canada. *Clin Inf Dis* 2005; 40: 386-391

*Geng E, Kreiswirth B, Burzynski J, **Schluger NW**. Transmission trends for human immunodeficiency virus associated tuberculosis in New York City. *International Journal of Tuberculosis and Lung Disease* 2005; 9: 661-666.

*Wiener RS, DellaLatta P, **Schluger NW**. Effect of nucleic acid amplification for M. tuberculosis on clinical decision-making in suspected extrapulmonary tuberculosis. *Chest*, 2005; 128: 102-107

Lie SZ, Li J, **Schluger NW**. Directly observed therapy (DOT) and timely treatment completion among Asian-born immigrant tuberculosis patients. *International Journal of Tuberculosis and Lung Disease*, 2005; 9: 884-9.

*Geng E, Kreiswirth B, Burzynski J, **Schluger NW**. Clinical and radiographic correlates of primary and reactivation tuberculosis: a molecular epidemiologic study. *JAMA* 2005; 293: 2740-5.

Weiner M, Benator D, Burman W, Peloquin CA, Khan A, Vernon A, Jones B, Silva-Trigo C, Zhao Z, Hodge T; **Tuberculosis Trials Consortium****. Association between acquired rifamycin resistance and the pharmacokinetics of rifabutin and isoniazid among patients with HIV and tuberculosis. *Clin Inf Dis* 2005; 40: 1481-1491

Burman W, Benator D, Vernon A, Khan A, Jones B, Silva C, Lahart C, Weis S, King B, Mangura B, Weiner M, El-Sadr W; **Tuberculosis Trials Consortium****. Acquired

rifamycin resistance with twice-weekly treatment of HIV-related tuberculosis. *Am J Respir Crit Care Med* 2006; 173: 350-356

Sterling T, Chaisson R, Khan A, Zhao Z, Weiner M, **Schluger N**, Weiner M. Mortality in a Large Tuberculosis Treatment Trial: Modifiable and Non-Modifiable Risk Factors. *International Journal of Tuberculosis and Lung Disease, Int J Tuberc Lung Dis* 2006; 10: 542-549

***Schluger NW**. Assessing Tuberculosis Transmission and Virulence: The Vanishing Tuberculin Skin Test. *Am J Respir Crit Care Med* 2006; 173: 942-943

Roth M, Connett JE, D'Armiento JM, Foronjy RF, Friedman PJ, Goldin JG, Louis TA, JTMao, Muindi JR, O'Connor GT, Ramsdell JW, Ries AL, Scharf SM, **Schluger NW**, Sciruba FC, Skeans MA, Walter RE, Wendt CH, Wise RA. Feasibility of Retinoids for the Treatment of Emphysema (FORTE) Study. *Chest*, 2006; 130: 1334 – 1345

Schluger NW*, Karunakara U, Lienhardt C, Nyirenda T, Chaisson R. Building clinical trial capacity for tuberculosis drugs in high-burden countries. *PLOS Medicine* 2007; 4: e302-306

Schluger NW*. Drug resistant tuberculosis in Europe. *Eur Respir J*. 2007; 30: 825-7

Muindi JR, Roth MD, Wise RA, Connett JE, O'Connor GT, Ramsdell JW, **Schluger NW**, Romkes M, Branch RA, Sciruba FC. Pharmacokinetics and Metabolism of All-trans- and 13-cis-Retinoic Acid in Pulmonary Emphysema Patients. *J Clin Pharmacol* 2008; 48: 96-107.

Bodle EE, Cunningham J, DellaLatta P, **Schluger NW**, Saiman L. Epidemiology of Nontuberculous mycobacteria in patients without HIV infection, New York City. *Emerging Infectious Diseases*, 2008; 14

Brodie D, Lederer DJ, Gallardo JS, Trivedi SH, Burzynski JN, **Schluger NW***. Use of an Interferon- γ Release Assay To Diagnose Latent Tuberculosis Infection in Foreign-Born Patients. *Chest*. 2008 Apr;133(4):869-74

Hamilton C, Stout J, Goodman P, Mosher A, Menzies R, **Schluger NW**, Khan A, Johnson J, Vernon A. The value of end-of-treatment chest radiograph in predicting pulmonary tuberculosis relapse. *Int J Tuberc Lung Dis* 2008; 12: 1059-1064

Ben Amor Y, Nemser B, Singh A, Sankin A, and **Schluger NW***. The underreported threat of MDR-TB in Africa. *Emerging Infect Dis* 2008; 14: 1345-1352

Schluger NW*. Suppose they gave an epidemic and nobody came? *Am J Bioethics*, 2008; 8:23-5

Schluger NW*. Improving protection for human research subjects: better oversight, not just more oversight. *Am J Bioethics*, 2008; 8:13-5

Schluger NW*. Drug-resistant tuberculosis—what is to be done? *Chest* 2009; 136:333-335

Dorman SE, Johnson JL, Goldberg S, Muzanye G, Padayatchi N, Bozeman L, Heilig CM, Bernardo J, Choudhri S, Grosset JH, Guy E, Guyadeen P, Leus MC, Maltas G, Menzies D, Nuermberger EL, Villarino M, Vernon A, Chaisson RE; **Tuberculosis Trials Consortium****. Substitution of moxifloxacin for isoniazid during intensive phase treatment of pulmonary tuberculosis. *Am J Respir Crit Care Med*. 2009; 180: 273-80.

D'Armiento J, Scharf SM, Roth MD, Connett JE, Ghio A, Sternberg D, Goldin JG, Louis TA, Mao JT, O'Connor GT, Ramsdell JW, Ries AL, **Schluger NW**, Sciruba FC, Skeans MA, Voelker H, Walter RE, Wendt CH, Weinmann CG, Wise RA Foronjy RF. Eosinophil and T cell Markers Predict Functional Decline in COPD Patients, *Respiratory Research*, 2009;10:113-126

Stout JE, Kosinski AS, Hamilton CD, Goodman PC, Mosher A, Menzies D, **Schluger N**, Khan A, Johnson JL. Effect of Improving the Quality of Radiographic Interpretation on the Ability to Predict Pulmonary Tuberculosis Relapse. *Acad Radiol* 2010;17:157-62

Yip NH, Yuen G, MD; Lazar EJ, Regan BK, Brinson M, Taylor B, George L, Karbowitz SR, Stumacher R, **Schluger NW**, Thomashow BM. Analysis of Hospitalizations for COPD Exacerbation: Opportunities for Improving Care. *COPD: Journal Of Chronic Obstructive Pulmonary Disease*, 2010; 7(2):85-92.

Ben Amor Y, Day MS, **Schluger NW***. Preventing the next generation of extensively drug-resistant tuberculosis *Int J Tuberc Lung Dis*. 2010; 14(5):525-7.

Schluger NW. CT Screening for Evaluating Contacts of TB Patients: Ready for Prime Time? *Chest* 2010; 137 1011-1013

Lopez de Castilla D. and **Schluger NW***. Tuberculosis following solid-organ transplantation. *Transplant Infectious Diseases*, 2010 Apr;12: 106-12

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*** Senior or corresponding author**

**** Dr. Schluger has been a principal investigator of the Tuberculosis Trials Consortium (CDC-funded) since its inception in 1994, and he has served as Chairman of the Steering Committee and the Executive Committee of the Consortium from 2000-present. He contributed patients to all studies listed.**

***** Dr. Schluger was a member of the Idiopathic Pulmonary Fibrosis Study Group and was the principal investigator at Columbia University for this trial**

****** Dr. Schluger served as Chairman of the IGRA Expert Committee**

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Invited Lectures

The new CDC guidelines for the use of interferon gamma release assays for the detection of tuberculosis infection. National Tuberculosis Controllers Association Annual Meeting, Atlanta, GA, June 2010

Interferon gamma release assays should replace tuberculin skin testing for the diagnosis of tuberculosis infection. Controversies In Pulmonary Infectious Diseases (Major Symposium) American Thoracic Society International Conference, New Orleans, May 2010

Research challenges in tuberculosis. Global Tuberculosis Institute of the University of Medicine and Dentistry of New Jersey (UMDNJ) TB Grand Rounds, March 2010

New tools for the control of tuberculosis. Reynard McDonald Annual Lecture, University of Medicine and Dentistry of New Jersey (UMDNJ) Department of Medicine Grand Rounds, Newark, NJ, March 2010

Tuberculosis Abroad and At Home, 2010. Medical Grand Rounds, Norwalk Hospital, Norwalk, CT, January 1020

Tuberculosis Update 2010. Medical Grand Rounds, Valley Hospital, Ridgefield, NJ, January 2010

Tuberculosis in the world in 2010. Medical Grand Rounds, State University of New York at Stony Brook School of Medicine, Stony Brook, NY, December 2009

A research agenda for tuberculosis. Pulmonary Division Research Seminar, SUNY Stony Brook, Stony Brook, NY, December 2009

Progress in Tuberculosis. Medical Grand Rounds, Lankenau Hospital, Philadelphia, PA, October 2009

Tuberculosis: Issues for Primary Care. New York Children's Health Project, Bronx, NY, May 2009

Changing strategies in the diagnosis and treatment of tuberculosis infection and disease. Contemporary Topics on Infectious Diseases Series, University of Texas Health Science Center at San Antonio Teleconference Network, April 2009

New diagnostic tools for tuberculosis. Pulmonary Grand Rounds, Albert Einstein Hospital, Philadelphia, March 2009

Can we make progress against tuberculosis? Mayock Memorial Lecture, Laennec Society of Philadelphia, Philadelphia, March 2009

The Persistent Plague: Can Tuberculosis Treatment be Improved? Pulmonary Grand Rounds, Mount Sinai Medical Center, New York, January 2009

New approaches to the diagnosis and treatment of tuberculosis. PRI-MED 2008, Sponsored by Harvard Medical School and Columbia University College of Physicians and Surgeons, New York, October 2008

Advances in the diagnosis of tuberculosis. Annual Scientific Meeting, Hong Kong Thoracic Society, Hong Kong, March 2008

New drugs for tuberculosis. Annual Scientific Symposium, New York City Department of Health Tuberculosis Control Program, New York, March 2008

New strategies for the diagnosis of tuberculosis infection and disease. American College of Chest Physicians Annual Meeting, Chicago, October 2007

Chemotherapy and immunotherapy of drug-tuberculosis. Infectious Disease Society of America Annual Meeting, San Diego CA, October 2007

Changing approaches in the diagnosis and treatment of tuberculosis. Connecticut Thoracic Society Annual Scientific Session, Hartford, CT, October 2007

Update in tuberculosis, 2007. Pulmonary Division Grand Rounds, St. Luke's Roosevelt Hospital Center, New York, September 2007.

Advances in the diagnosis and treatment of tuberculosis. Pulmonary Division Grand Rounds, Beth Israel Hospital, New York, September 2007

Tuberculosis 2007. Albert Einstein College of Medicine Update and Board Review in Infectious Diseases, New York, September 2007

Improving Tuberculosis Prevention, Diagnosis, and Control. American Thoracic Society International Conference, San Francisco, May 2007

New Approaches to the Diagnosis and Treatment of Tuberculosis. Connecticut Infectious Disease Society Annual Meeting. Waterbury, CT May 2007

The Past, Present and Future of Tuberculosis Clinical Trials. Plenary Lecture. Keystone Symposium on Tuberculosis. Vancouver, Canada, March 2007.

The White Plague Abroad and at Home: Tuberculosis 2007. Grand Rounds, Department of Medicine, New York Medical College, February 2007

Current and Future Clinical Trials Capacity for Tuberculosis. Medecins Sans Frontieres/Doctors Without Borders Symposium on TB Drug Development, New York, January 2007

Progress in Development of New Tests and Treatments for Tuberculosis. Grand Rounds, Division of Pulmonary, and Critical Care Medicine, New York University School of Medicine, January 2007

Tuberculosis in the World, 2007. Medical Grand Rounds, Winthrop University Hospital, Mineola, New York, January 2007

New Drugs and Tests for Tuberculosis. Medical Grand Rounds, New York Methodist Hospital, Brooklyn, NY January 2007

- Tuberculosis in patients receiving anti-TNF therapy. American College of Chest Physicians Annual Meeting, Salt Lake City, October 2006
- Navigating the IRB for Clinical Researchers. Infectious Disease Society of America Annual Meeting, Toronto, October 2006
- The Laboratory-Clinic Interface in Tuberculosis. National Laboratory Training Network, New York, June 2006
- New drugs in development for tuberculosis. American Thoracic Society International Conference, San Diego, May 2006
- New tests and new drugs for tuberculosis. Pulmonary Division Grand Rounds. State University of New York at Stony Brook, Stony Brook, New York, March 2006
- Advances in the Diagnosis and Treatment of Tuberculosis. Winthrop University Hospital, Pulmonary Grand Rounds, Mineola, NY, January 2006
- New treatments for tuberculosis. Hallym University Medical Center, Seoul, Korea, November 2005
- Prospects for new treatments for tuberculosis. New York Academy of Sciences, New York City, October 2005.
- Changing strategies in the diagnosis of active and latent tuberculosis. Infectious Diseases Society of America Annual Scientific Meeting, San Francisco, October 2005
- Novel treatments for tuberculosis. Seminar on Advanced Topics in Infectious Diseases, Memorial Sloan Kettering Cancer Center, New York, October 2005
- Can treatment of tuberculosis be improved? Combined Adult and Pediatric Infectious Disease Grand Rounds, Mount Sinai Medical Center, New York, April 2005
- Current and future approaches to the treatment of latent and active tuberculosis. Pulmonary Division Grand Rounds, Beth Israel Medical Center, New York, February 2005
- Treatment guidelines for tuberculosis: what's the evidence? American College of Chest Physicians Annual Scientific Assembly, Seattle, October 2004
- Lung Cancer, Asthma, Tuberculosis, COPD (4 lectures). Austrian American Foundation Salzburg Medical Seminar, Salzburg, Austria, July 2004
- Retinoids in the treatment of emphysema. Invited Presentation, FASEB Summer Research Conference on Retinoids, Pine Mountain Georgia, June 2004
- The Past, Present and Future of Tuberculosis Clinical Trials. Grand Rounds, Department of Medicine, University of Medicine and Dentistry of New Jersey, Newark, March 2004
- Tuberculosis epidemiology: setting a clinical research agenda. PHRI Scientific Seminar, Public Health Research Institute, International Center for Public Health, University of Medicine and Dentistry of New Jersey, Newark, November 2003

Tuberculosis 2003. Grand rounds, Department of Emergency Medicine, Jacobi Hospital/Albert Einstein College of Medicine, New York, October 2003

Applications of Molecular Biology to Clinical Medicine. Medical Grand Rounds, St. Vincent's Hospital, Bridgeport, CT, July 2003

The Genome Era in Medicine. Medical Grand Rounds. Long Island College Hospital, Brooklyn, NY May 2003

Current understanding of pathogenesis and treatment of COPD. Pulmonary Grand Rounds, Winthrop University Hospital, Mineola, NY, November, 2002

Advances in the Diagnosis of Tuberculosis. Annual Scientific Assembly of the International Union Against Tuberculosis and Lung disease, Montreal, Canada, October 2002

Evolving concepts in the pathogenesis and treatment of COPD. Grand Rounds, Division of Pulmonary and Critical Care Medicine, New York University Medical Center, New York City, March 2002

Trends in tuberculosis transmission in New York City: implications for tuberculosis control and elimination practices. Grand Rounds, Department of Medicine, St. Luke's Roosevelt Hospital Center, New York City, December 2001.

Current concepts in the pathogenesis and treatment of interstitial lung disease. Pulmonary Grand Rounds, Winthrop University Hospital, Mineola, NY, October 2001.

Epidemiology and presentation of viral respiratory infections in adults. American Thoracic Society International Conference, San Francisco CA, May 2001

Basic science year in review: tuberculosis. American Thoracic Society International Conference, San Francisco CA, May 2001

The future of tuberculosis diagnostics. American Thoracic Society International Conference, San Francisco CA, May 2001

New Strategies for the Prevention and Treatment of Tuberculosis. Department of Medicine, St. Vincent's Hospital, Bridgeport, CT March 2001

Aspects of the host immune response to tuberculosis. Lung Biology Seminar. Yale University School of Medicine, New Haven, CT, November 2000

Advances in the Prevention and Treatment of Tuberculosis. American College of Chest Physicians Annual Scientific Assembly, San Francisco, CA, October 2000

Tuberculosis update. Medical Grand Rounds, St. Vincent's Hospital, Bridgeport, CT, August, 2000

Aspects of the human host response to tuberculosis. Public Health Research Institute, New York City, June 2000

Current Approaches to the diagnosis of tuberculosis. Annual International Conference of the American Thoracic Society, Toronto, May 2000

Pathogenesis of Tuberculosis. Annual International Conference of the American Thoracic Society, Toronto, May 2000

Treatment of bronchitis and pneumonia. Medical Grand Rounds, St. Vincent's Hospital, Bridgeport, CT, March 2000

Current Approaches to the Diagnosis of Pulmonary Embolism. Medical Grand Rounds, St. Vincent's Hospital, Bridgeport, CT, March 2000

Advances in the understanding of the human host response to tuberculosis. Grand Rounds, Division of Pulmonary and Critical Care Medicine, Mt. Sinai Medical Center, New York City, February 2000

New developments in the prevention and treatment of tuberculosis. Grand Rounds, Division of Pulmonary and Critical Care Medicine, Norwalk Hospital, Norwalk, Connecticut, December 1999

Current concepts in the treatment of latent tuberculosis infection. American Lung Association of Nassau and Suffolk Annual Meeting, Melville, NY, December 1999

Tuberculosis and HIV infection. Special Topics in Infectious Diseases Seminar, Memorial Sloan-Kettering Cancer Center, New York City, November 1999

The continuing challenge of tuberculosis. Pulmonary Grand Rounds. State University of New York Health Science Center at Brooklyn, October 1999

The global challenge of tuberculosis. Division of Pulmonary and Critical Care Medicine Grand Rounds, St. Luke's-Roosevelt Hospital Center, New York City, June 1999

Current concepts in bronchitis and pneumonia. Allen Pavilion Medical Grand Rounds, Columbia Presbyterian Medical Center, New York City, May 1999

Assessing immunity to tuberculosis in humans. American Thoracic Society International Conference, San Diego, April 1999

Treatment and prevention of tuberculosis in patients with AIDS. American Thoracic Society International Conference, San Diego, April 1999

Tuberculosis update. Division of Pulmonary and Critical Care Medicine Grand Rounds, Winthrop University Hospital, Mineola, New York, April 1999

Current status of the global tuberculosis epidemic. Division of Pulmonary and Critical Care Medicine research conference, North Shore University Hospital, March 1999.

The impact of drug resistance on the global tuberculosis epidemic. International Union Against Tuberculosis and Lung Disease (North American Region), Annual Meeting, Chicago, February 1999

Bronchitis and pneumonia. New York University Health Service, February 1999.

Progress in tuberculosis research. Grand Rounds, Department of Medicine, University of Medicine and Dentistry of New Jersey, January 1999

Current challenges in tuberculosis research. Division of Pulmonary and Critical Care Medicine, Harlem Hospital Center, New York, NY, December, 1998

Diagnosis of pulmonary embolism: a clinician's view. New York Roentgen Society/New York Academy of Medicine, November 1998

Tuberculosis: a century of progress? Grand Rounds, Department of Medicine, Brookdale University Hospital and Medical Center, Brooklyn, NY, August 1998

Tuberculosis and pregnancy. Grand Rounds, Department of Obstetrics and Gynecology, Beekman Downtown Hospital, New York, NY, June 1998

Rapid diagnostic techniques in the diagnosis of tuberculosis: practical applications. American Thoracic Society Annual Scientific Assembly, Chicago, IL, April 1998

The changing face of tuberculosis. Grand Rounds, Department of Medicine, North Shore University Hospital, Manhasset, New York, February 1998

Trends in tuberculosis in New York City. Pulmonary Grand Rounds, SUNY Health Science Center, Brooklyn, NY, February 1998

HIV-associated tuberculosis. Center for Special Studies, The New York Hospital-Cornell Medical Center, New York City, January 1998

The challenge of tuberculosis. Medical Grand Rounds, Beekman Downtown Hospital, New York City, February 1998

Current aspects of tuberculosis in New York City. Pulmonary Grand Rounds, St. Luke's-Roosevelt Hospital Center, New York City, January 1998

Tuberculosis trends in New York City. Medical Grand Rounds, Brooklyn Veterans Administration Medical Center, Brooklyn, NY, January 1998

Drug resistant tuberculosis: current prospects and future challenges. Pulmonary Grand Rounds, Long Island Jewish Medical Center, New Hyde Park, NY, December 1997

HIV-associated tuberculosis. Pulmonary Grand Rounds, Lenox Hill Hospital, New York City, November 1997

New management strategies for tuberculosis. American College of Chest Physicians Annual Scientific Session, New Orleans, October 1997

Tuberculosis: current challenges. Grand Rounds, Department of Medicine, Queens Hospital Center, New York, October 1997

TB-HIV interactions: implications for TB therapy. Centers for Disease Control and Prevention, Atlanta, GA, September 1997

Drug-resistant tuberculosis. Pulmonary Grand Rounds, Harlem Hospital Center, New York City, April 1997

Tuberculosis. Advanced Topics in Infectious Diseases Seminar, Memorial Sloan-Kettering Cancer Center, New York City, April 1997

Understanding the human host response to tuberculosis: implications for therapy. Pulmonary Grand Rounds, Massachusetts General Hospital, Boston, MA, March 1997

Advances in diagnosis and treatment of tuberculosis. Division of Pulmonary and Critical Care Medicine, Beth Israel Hospital, Boston, MA, March 1997

Advances in the diagnosis and treatment of tuberculosis. Pulmonary Grand Rounds, North Shore University Hospital, Manhasset, NY, March 1997

TB/HIV-Issues in diagnosis and therapy. New York State Annual TB Controllers Conference, Albany, NY, March 1997

The Challenge of Multidrug-resistant Tuberculosis. Grand Rounds, Department of Medicine, St. Joseph's Hospital and Medical Center, Phoenix, AZ, March 1997

Tuberculosis: places we have been, places we are going. Grand Rounds, Department of Medicine, New York University Medical Center, New York City, January 1997

Experimental approaches to drug-resistant tuberculosis. New York City Department of health Bureau of Tuberculosis Control. New York City, January 1997

Tuberculosis: looking to the future. Division of Pulmonary and Critical Care Medicine, Mount Sinai Medical Center, New York City, January 1997

Advances in tuberculosis: epidemiology and clinical science. Division of Pulmonary and Critical Care Medicine Grand Rounds, Beth Israel Hospital, New York City, December 1996

Tuberculosis: where we've been, where we're going. Department of Medicine, Columbia University College of Physicians and Surgeons, New York City, July 1996

Tuberculosis at the end of the 20th century. How large a shadow does it cast? Department of Community Medicine, Grand Rounds, St. Vincent's Hospital, New York City, July 1996

Tuberculosis, Society, and Public Health. John Jay College of Criminal Justice, New York, NY, December 1995

Nucleic acid amplification of microorganisms from peripheral blood. Becton Dickinson Research Center, Research Triangle Park, North Carolina, November 1995

Tuberculosis basic science: the year in review. American College of Chest Physicians Annual Scientific Session, New York, November 1995

Appropriate Use of Emerging Technologies for the Rapid Diagnosis of Tuberculosis. American Thoracic Society Annual Scientific Session, Seattle, May 1995

Diagnostic Approaches to Tuberculosis. Center for Special Studies, The New York Hospital-Cornell Medical Center, March 1995

Current Approaches to the Diagnosis of Tuberculosis. Pulmonary Research Seminar, Division of Pulmonary and Critical Care Medicine, Columbia-Presbyterian Medical Center, New York, January 1995

Tuberculosis in New York. Office of the Chief Medical Examiner of New York City, December 1994.

Advances in the Diagnosis of Tuberculosis. E. Leslie Chusid Memorial Lecture, Mount Sinai Medical Center Division of Pulmonary and Critical Care Medicine, New York, November 1994

Molecular Biology for Clinicians. American College of Chest Physicians Annual Scientific Session, New Orleans, November 1994

The Role of Community Organizations in Tuberculosis Control. New York State Department of Health DOT Providers Conference, New York, July 1994

Multidrug-resistant Tuberculosis. First Erlangen International Congress on Pulmonary Diseases, Erlangen, Germany, June 1994

Molecular Diagnosis of Respiratory Infections. Memorial-Sloan Kettering Cancer Center Division of Infectious Diseases, Special Topics in Infectious Disease Seminar, New York, June 1994

The Rapid Diagnosis of Tuberculosis. American Thoracic Society Annual Scientific Session, Boston, May 1994

Directly Observed Therapy for Tuberculosis. New York State Division of AIDS Services, AIDS Scholars Seminar, New York, May 1994

Current Approaches to the Diagnosis of Tuberculosis. Beekman Downtown Hospital-The New York Infirmiry, Medical Grand Rounds, November, 1993

The Epidemiology of Tuberculosis in New York City. Annual medical update of the Health Insurance Plan (HIP) of New York, May 1993

