

## Curriculum Vitae

**Date Prepared:** June 1, 2021

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### **Education**

1987	AB	Chemistry, Psychology	Bowdoin College, Brunswick, ME
1992	MD	Medicine	Albert Einstein College of Medicine, New York, NY
1999	MMSc	Medical Sciences in Clinical Investigation	Harvard Medical School (HMS), Boston, MA
2000	SM	Epidemiology	Harvard T.H. Chan School of Public Health (HSPH), Boston, MA

### **Postdoctoral Training**

7/92-6/93	Intern	Internal Medicine	Beth Israel Hospital (BIH), Boston, MA
7/93-6/95	Resident	Internal Medicine	BIH
7/95-6/98	Clinical and Research Fellow	HMS Combined Infectious Diseases Training Program	HMS, BIH, Brigham and Women's Hospital (BWH), Brockton/West Roxbury VA Medical Center (VAMC), and Dana Farber Cancer Institute (DFCI), Boston, MA
7/96-6/97	Chief Resident	Medicine	BIH
7/97-6/99	Research Fellow	Infectious Disease	Beth Israel Deaconess Medical Center (BIDMC), Boston, MA
7/97-6/99	Research Fellow	Clinical Investigator Training Program	BIDMC-Harvard/Massachusetts Institute of Technology (MIT) Division of Health Sciences and Technology

### **Faculty Academic Appointments**

1996-1997	Instructor	Medicine	HMS
1999-2003	Instructor	Medicine	HMS
2002-2014	Affiliated Faculty	Health Sciences and Technology	Harvard-MIT
2003-2010	Assistant Professor	Medicine	HMS
2010-	Associate Professor	Medicine	HMS

### **Appointments at Hospitals/Affiliated Institutions (**

7/96-6/97	Attending Physician	Medical Services	BIH
7/97-6/98	Attending Physician	Emergency Department Walk-In Unit	BIDMC
7/98-6/99	Attending Physician	Medicine	BIDMC
7/98-6/00	Attending Physician	Medicine	Brockton/West Roxbury VAMC
7/99-	Associate Physician	Infectious Diseases	BWH
7/99-	Attending Physician	Medical Oncology	DFCI
7/11-	Associate Member	Ragon Institute	Massachusetts General Hospital (MGH), MIT, HMS

### **Other Professional Positions**

2008-	TrialNet Research Group Infectious Diseases Advisor "	National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health (NIH), Bethesda, MD
2012-13 "	Consultant, Fungal Meningitis Outbreak	US Centers for Disease Control, Washington, DC

### **Major Administrative Leadership Positions**

#### **Local**

1999-	Director, Clinical Research, Division of Infectious Disease	BWH
2000-04	Director, Surgical and Critical Care Teaching Rounds	BWH
2000-	Director, Infectious Diseases Service	DFCI
2001-2005	Assistant Director, Clinical Investigator Training, Division of Health Sciences and Technology	BIDMC
2001-	Course Director, Clinical Transplantation	HMS
2001-	Course Director, Infectious Diseases in Primary Care	HMS
2001-	Co-Director, Infectious Diseases Rounds	BWH
2004-	Director, Antimicrobial Stewardship Program	BWH
2008-	Director, Immunocompromised Host Program	BWH/DFCI
2010-16	Associate Director, General Clinical Research Center	BWH
2012	Co-Chair, AIDS Vaccine Conference	Ragon Institute
2012-17	Associate Director, Harvard Catalyst CRCs	HMS
2017-	Director, Center for Clinical Investigation	BWH
2017-	Director, Harvard Catalyst Clinical Research Center	BWH
2018-	Program Leader for Network, Harvard Catalyst	HMS

### **Committee Service**

#### **Local**

1996-1997	Internship Selection Committee	BIH
1996-1997	Pharmacy and Therapeutics Committee	BIH

1996-1997	Quality Assurance Committee	BIH
2000-	Internship Selection Committee	BWH
2000-	Infection Control Committee	DFCI
2001-2002	Inpatient Strategic Planning Committee	BWH
2001-2005	Pharmacy and Therapeutic Committee	BWH
2001-	Antibiotic Subcommittee of P+T	BWH
2003-	Harvard Medical School Committee on Graduate Medical Education	HMS
2003-	International Committee	HMS
2003-	Institutional Review Board	Partners (BWH and MGH)
2004-2005	Pharmacy and Therapeutic Committee	BWH
	2004-2005	Vice Chair
2006-2014	Committee on Microbiologic Safety (COMS)	HMS
2011-	Partners Institutional Biosafety Committee	Partners (BWH and MGH)
2017-	Academic Executive Committee	Partners (BWH and MGH)

### **National**

2009-16	Network Evaluation Committee	HIV Vaccine Trials Network (HVTN), National Institute of Allergy and Infectious Diseases (NIAID), NIH
	2009-16	Chair
2010-	Prevention and Treatment of Cancer Related Infections Guideline Panel	National Comprehensive Cancer Network (NCCN), Plymouth Meeting, PA
	2012-	Chair
2014-15	Anti-Infective Drugs Advisory Committee	Food and Drug Administration (FDA), Washington, DC
	2015-	FDA
2015-	Antimicrobial Drugs Advisory Committee	Chair
2016	Microbiology Devices Panel, Medical Devices Advisory Committee	Center for Devices and Radiological Health, FDA
		<i>Ad hoc</i> Member
2016-	Data Safety Monitoring Board Protocol 14-0107: Vaccine Study of MVA-Yf product	Division of Microbiology and Infectious Diseases (DMID), NIAID, NIH
	2016-	Chair
2018-	Data Safety Monitoring Board Protocol 14-0092: Vaccine Study of MVA-Filo product	DMID, NIAID, NIH
	2018-	Chair

### **International**

2020-	COVID-19 Clinical Management Committee	World Health Organization Member
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### **Professional Societies (**

1993-	American College of Physicians	Member
1993-	Massachusetts Medical Society	Member
1995-	Infectious Disease Society of America	Member
1999-	American Society of Microbiology	Member
2000-	The Transplantation Society	Member
2003-	Cannon Society, HMS	Fellow

### **Other Editorial Roles**

2001-2005	Member, Editorial Board	<i>Transplant Infectious Diseases</i>
2003-2005	Associate Editor	<i>Transplant Infectious Diseases</i>
2003-	Editor, Images in Clinical Medicine	<i>New England Journal of Medicine</i>
2005-	Deputy Editor	<i>New England Journal of Medicine</i>

### **Honors and Prizes**

1985	Academic Scholarship "	James Bowdoin Scholar, Bowdoin College
1986	The Franklin Delano Roosevelt Cup	Undergraduate award for community service, Bowdoin College
1987	The J.W. Saxe Memorial Prize "	National award for public service, Washington, DC
1987	The Haldane Cup "	Graduation prize for outstanding leadership and character, Bowdoin College
1990	Alpha Omega Alpha "	Albert Einstein College of Medicine
1990	International Health Fellowship "	Grant to work in Africa, Albert Einstein College of Medicine
1992	Edward Weinstein Memorial Award	Graduation prize for outstanding scholarship and human commitment, Albert Einstein College of Medicine
1998	George McCracken Scholar "	38 <sup>th</sup> Interscience Conference on Antimicrobial Agents and Chemotherapy, American Society for Microbiology
2000	Young Investigator Junior "	BWH/Partners Faculty Award
2001	Partners in Excellence Award "	BWH/Partners
2002 "	Program Committee Award Immunology of Infection	42 <sup>nd</sup> Interscience Conference on Antimicrobial Agents and Chemotherapy, American Society for Microbiology
2011	Fellow "	Infectious Diseases Society of America
2013	Program Committee Award " Clinical Microbiology " and Diagnosis "	53 <sup>rd</sup> Interscience Conference on Antimicrobial Agents and Chemotherapy, American Society for Microbiology
2015	Top Article Award "	<i>Clinical Infectious Diseases</i>
2018	Fellow "	American College of Physicians

## **Report of Local Teaching and Training**

*No presentations below were sponsored by outside entities*

### **Teaching of Students in Courses**

#### **HMS Courses**

1997	Core I Medicine Clerkship 3 <sup>rd</sup> year medical students, Lecturer	HMS/BIDMC
1998	Immunology, Microbiology and Infectious Diseases (IMID) 2 <sup>nd</sup> year medical students, Tutor/Lab facilitator	HMS
1999	IMID 2 <sup>nd</sup> year medical students, small group facilitator	HMS
2000-2001	IMID 2 <sup>nd</sup> year medical students	HMS
2001-2007	Modern Microbe Hunters, IN 503.J 4 <sup>th</sup> year medical students	HMS
2005	Principles of Clinical Investigation, HT 391 4 <sup>th</sup> year medical students	HMS
2006-	Clinical Infectious Diseases in the Transplant and Cancer Patient, ME 513M.Ja 4 <sup>th</sup> year medical students	HMS
2007-2008	Immunosuppressive Medications, Pharmacology and Clinical Therapeutics, HT 350.0 1 <sup>st</sup> year medical students	HMS
2007-	Respiratory Physiology, HST 100 1 <sup>st</sup> year HST/HMS students	HMS

#### **Other Harvard University Courses**

2015-	Pandemics, LS-120 Undergraduate students	Harvard University
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### **Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)**

1997-1999 "	Core Education Program Residents and students	BWH and West Roxbury VAMC
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1998-1999	Core Education Program Primary Care Residents	BIDMC
2000-2005	Infectious Diseases Lecture Series Fellows	BWH
2001	Clinical Investigator Training Program Fellows	BIDMC, Harvard/MIT
2002-2005	Anti-Fungal Agents Harvard ID Fellows	BWH, MGH, BIDMC, BCH
2003-	Approach to Febrile Neutropenia Harvard ID Fellows	BWH, MGH, BIDMC, BCH
2004-2010	Vaccine Lecture Medicine Residents	BWH
2004-2010	Clinical Syndromes in ID Internal Medicine Residents	BWH
2005	Approach to ID issues in HSCT Internal Medicine Residents	BWH/DFCI
2006-2010	ID Lecture: Oncology Teaching Internal Medicine Residents	BWH/DFCI
2006-	Longwood Combined Immunocompromised Conference	BCH, BIDMC, BWH/DFCI
2010-	BWH Internal Medicine Resident Journal Club	BWH

### **Clinical Supervisory and Training Responsibilities**

1999-	Supervision of infectious diseases fellows	BWH-DFCI Inpatient Immunocompromised Infectious Diseases Consult Service 10-20 weeks per year
1999-	Infectious Diseases Clinical Rotation 3 <sup>rd</sup> and 4 <sup>th</sup> year medical students, teaching attending	BWH

1999-	Supervision of infectious diseases fellows "	Outpatient BWH/DFCI Infectious Diseases Clinic 1 half day per week
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**Formal Teaching of Peers (e.g., CME and other continuing education courses)**

*No presentations below were sponsored by outside entities*

1997	Infectious Diseases Department of Medicine Firm Conferences, BIDMC	1 lecture per month Boston, MA
2000	Surgical Infections Surgical Morbidity and Mortality Conference, BWH	4 presentations/year Boston, MA
2001-	Infectious Diseases Review Intensive Review of Internal Medicine, BWH/HMS	1-2 presentations/year Boston, MA
2002	Echinococcal Disease Medical/Pathology Conference, BWH	1 presentation Boston, MA
2003	New Vaccines Pri-Med, HMS	1 presentation Boston, MA
2003-2007	Common ID Consults and Cannot Miss Diagnoses; Update in Internal Medicine for the sub-specialist CME Course, HMS	1 presentation/year Boston, MA
2004	Hepatitis Talk, ID Cases Infectious Diseases CME Course, BWH	2 presentations Boston, MA
2004-2005	Approach to Febrile Neutropenia Infectious Diseases Course, MGH	1 presentation/year Boston, MA
2004-2010	Immunization Update Office practice of primary care medicine, CME course, HMS	1 presentation/year Boston, MA
2004-	Vaccines and Can't Miss Diagnosis in ID Intensive Review of Internal Medicine CME course, BWH	2 presentations Boston, MA
2005	Can't Miss Diagnoses Infectious Diseases CME Course, BWH	1 presentation Boston, MA
2005-2010	Common ID Consults Update in General Internal Medicine for the subspecialist (Sillman, Goodson) CME course, BWH	1 presentation/year Boston, MA
2006	ID Emergencies and Immunization Update and Can't Miss Diagnoses, Infectious Diseases CME Course, BWH	2 presentations Boston, MA

2007	Immunizations: What's New? Pri-Med, HMS	1 presentation Boston, MA
2008	New Vaccines and Can't Miss ID Diagnoses Infectious Diseases CME Course, BWH	2 presentations Boston, MA
2011	Infectious Diseases Diagnostics in Molecular Signal to Understand Exposure Biology Course, EH-527 HSPH	1 lecture Boston, MA
2016	Vaccination Update Update in Internal Medicine Course, BIDMC	Single presentation Boston, MA
2016	New Vaccines Pri-Med, HMS	Single presentation Boston, MA

### **Local Invited Presentations**

*No presentations below were sponsored by outside entities*

1997 "	Ethics of Medical Care / Thorndike Rounds Department of Internal Medicine, BIDMC
1998 "	Adult Immunizations / Core Education Program Department of Internal Medicine, BIDMC
1998 "	Infectious Disease Emergencies / Thorndike Rounds Department of Internal Medicine, BIDMC
1998 "	Fungal Infections in Pregnancy / Core Education Program Department of Obstetrics and Gynecology, BIDMC
1998 "	Infectious Disease Cases / Firm Conferences Department of Medicine, BIDMC
1999 "	Clinical Research: An Overview / Speaker Conference on Good Clinical Practice, Harvard Medical International, Mexico City, Mexico
1999 "	Publishing Clinical Trial Results / Speaker Conference on Good Clinical Practice, Harvard Medical International, Mexico City, Mexico
1999 "	Analysis of a Scientific Publication / Speaker Conference on Good Clinical Practice Harvard Medical International, Mexico City, Mexico
1999 "	Clinical Research in the XXI Century / Speaker



- Conference on Good Clinical Practice, Harvard Medical International, Mexico City, Mexico
- 2000 " Management of the Positive PPD and Approach to CMV / Lung Transplant Retreat  
Division of Thoracic Surgery, BWH
- 2000 " Approach to Antibiotic Therapy / Core Education Program  
Department of Medicine, BWH
- 2000 " Nosocomial Infections / Core Education Program  
Department of Medicine, BWH
- 2000 " Endemic Mycoses / Core Education Program  
Department of Medicine, BWH
- 2000 " Management of Fungal Infections / Core Education Program  
Department of Anesthesia and Critical Care, BWH
- 2000 " Approach to Atypical Chest Infections / Core Education Program  
Department of Surgery, BWH
- 2000 " Update on Vancomycin-Resistant Enterococcus / Grand Rounds  
Department of Medicine, West Roxbury VAMC, HMS
- 2000 " Approach to Aspergillus / Lung Transplant Retreat  
Division of Thoracic Surgery, BWH
- 2000 " Ethics in Clinical Research / Lung Transplant Retreat  
Conference on Good Clinical Practice, Harvard Medical International, Delhi, India
- 2000 " Clinical Research: An Overview / Speaker  
Conference on Good Clinical Practice, Harvard Medical International, San Jose, Costa Rica
- 2000 " Publishing Clinical Trial Results / Speaker  
Conference on Good Clinical Practice, Harvard Medical International, San Jose, Costa Rica
- 2000 " Analysis of a Scientific Publication / Speaker  
Conference on Good Clinical Practice Harvard Medical International, San Jose, Costa Rica
- 2000 " Clinical Research in the XXI Century / Speaker  
Conference on Good Clinical Practice, Harvard Medical International, San Jose, Costa Rica
- 2001 " Management of Intrathoracic Fungal Infections / Core Education Program  
Department of Surgery, BWH

- 2001 " New Therapies and Approach to Prophylaxis for CMV / Lung Transplant Retreat  
Division of Thoracic Surgery, BWH
- 2001 " Intra-abdominal Infections / Core Education Program  
Department of Medicine, BWH
- 2001 " Infectious Disease Principles for the Surgeon / Core Education Program  
Department of Surgery, BWH
- 2001 " Optimal use of antifungal therapy / Core Education Program  
Department of Medicine, BWH
- 2001 " Discussant of Infectious Diseases Issues / Surgical Morbidity and Mortality  
Department of Surgery, BWH
- 2001 " Important Syndromes and Pathogens in the ICU / Core Fellow Lecture Series  
Departments of Anesthesia and Surgery, BWH
- 2001 " Chest Wall Infections / Core Education Program  
Division of Thoracic Surgery, BWH
- 2001 " Important Infectious Disease Syndromes / Primary Care Seminar  
Department of Medicine, BWH
- 2001 " Dermatologic Manifestations of Infectious Diseases: Can't Miss and Easy to Miss  
Diagnosis / Primary Care Seminar  
Harvard University Health Services, Cambridge, MA
- 2001 " Approach to Herpes Group Viruses in the BMT Patient / Bone Marrow Transplant Grand  
Rounds  
Department of Medicine, BWH
- 2001 " Can't Miss Infectious Diagnoses in the Outpatient Clinic / Faculty Development Session  
Revere Healthcare Center, MGH
- 2001 " Clinical Research: An Overview / Speaker  
Conference on Good Clinical Practice, Harvard Medical International, San Jose, Costa  
Rica
- 2001 " Publishing Clinical Trial Results / Speaker  
Conference on Good Clinical Practice, Harvard Medical International, San Jose, Costa  
Rica
- 2001 " Analysis of a Scientific Publication / Speaker  
Conference on Good Clinical Practice, Harvard Medical International, San Jose, Costa  
Rica

- 2001 " Clinical Research in the XXI Century / Speaker  
Conference on Good Clinical Practice, Harvard Medical International, San Jose, Costa Rica
- 2002 " Clinical Syndromes in Infectious Diseases / Primary Care Seminar  
Department of Medicine, BWH
- 2002 " Complicated Pulmonary Infections / Core Education Program  
Division of Thoracic Surgery, BWH
- 2002 " Important Mechanisms of Antimicrobial Resistance in Bacteria and New Therapeutics  
Important Rashes in the ICU / Critical Care Fellowship Core Lecture Series  
Departments of Anesthesia and Surgery, BWH
- 2002 " Viral Hepatitis: Clinical Controversies / Primary Care Seminar  
Department of Medicine, BWH
- 2002 " New Antiviral and Antifungal Agents / Core Educational Series  
Department of Pharmacy, BWH
- 2002 " Peri-Partum Sepsis / Surgical M+Ms  
Department of Surgery, BWH
- 2002 " Invasive Aspergillus Infection / Surgical M+Ms  
Department of Medicine, West Roxbury VAMC
- 2002 " Outpatient Infections in Oncology Patients / Nursing Retreat  
Department of Nursing, DFCI
- 2002 " A Tale of Two Cocci: MRSA and VRE / Nephrology Grand Rounds  
Division of Nephrology, BWH
- 2002 " Novel Anti-Fungal Therapies / Pharmacy Education Series  
Department of Pharmacy, BWH
- 2003 " Can't Miss Infections / Primary Care Seminar  
Department of Medicine, BWH
- 2003 " Management of Line Sepsis / Surgical M+Ms  
Department of Surgery, BWH
- 2003 " Necrotizing Fasciitis / Surgical M+Ms  
Department of Surgery, BWH
- 2003 " Important Mechanisms of Antimicrobial Resistance in Bacteria and New Therapeutics  
Important Rashes in the ICU / Critical Care Fellowship Core Lecture Series  
Departments of Anesthesia and Surgery, BWH

- 2003 " Diagnosis and Management of Invasive Fungal Infections / Medical Housestaff Lecture Series  
Department of Medicine, BWH
- 2003 " Resistant Gram Positive Pathogens / Grand Rounds  
West Roxbury VAMC
- 2003 " Anti-viral and Anti-fungal Strategies in BMT / Pharmacy Education Series  
Department of Pharmacy, BWH
- 2004 " Can't Miss Infections: Adult Immunizations / Primary Care Seminar  
Department of Medicine, BWH
- 2004 " Invasive Fungal Infections and Antifungal Therapy / Pulmonary Fellow Lecture Series  
Division of Pulmonary and Critical Care, BWH
- 2004 " Update on Invasive Fungal Infections / Grand Rounds  
Department of Medicine, West Roxbury VAMC
- 2004 " Approach to Respiratory Infections / Pharmacy Education Series  
Department of Pharmacy, BWH
- 2004 " Diagnosis and Treatment of Invasive Fungal Infections / Pathology Rounds  
Department of Pathology, BWH
- 2004 " CMV in Transplantation / Bone Marrow Transplantation (BMT) Grand Rounds  
Division of Oncology, Boston Children's Hospital
- 2004 " Update on Invasive Fungal Infections / Grand Rounds  
Department of Medicine, West Roxbury VAMC
- 2004 " Gram Positive Infections / Pharmacy Grand Rounds  
Department of Pharmacy, BWH
- 2006 " Viral Infections in HSCT / BMT PA Grand Rounds  
Oncology Service, BWH
- 2006 " Dermatologic Manifestations Infectious Diseases in Transplant Patients / Dermatology  
Department of Dermatology, Grand Rounds
- 2006 " Medical Journalism / HMI Medical Student Series  
HMS
- 2006 " Medical CPC / Discussant  
Department of Medicine, BWH
- 2008 " Diagnosis and Treatment of Invasive Fungal Infections / BMT Grand Rounds  
Department of Oncology, DFCI

- 2008 " Antimicrobial Management Program Development / Partners Physician Day  
Partners
- 2008 " Anti-Fungal Update / Pediatric SCT Group  
Department of Pediatrics, Boston Children's Hospital
- 2008 " Resistant Gram Negative Rod Infections in Oncology / DFCI Rounds  
Department of Medicine, DFCI
- 2008 " Medical Journalism / Invited lecture Harvard Medical International Course  
HMS
- 2008 " Clinical Pathologic Conference / Discussant  
Department of Medicine, MGH
- 2010 " Regulations to Riches Course / BWH Course on Research / Invited lecture  
BWH
- 2010 " Vaccines and Influenza / Invited lecture  
Harvard University Health Services, Cambridge, MA
- 2010 " Vaccines / Medical Student Talk  
Department of Medicine, BWH
- 2010 " Staffing Your Clinical Research Program / Invited lecture  
BWH Course on Clinical Research
- 2012 " Efficacy of Biomarkers for Infectious Diseases / Clinical Translational Science Center  
Course on Biomarkers  
Harvard School of Dental Medicine
- 2012 " Infectious Diseases Emergencies / Grand Rounds  
Harvard University Health Services, Cambridge, MA
- 2012 " Infectious Diseases Biomarkers / Biomarker Course  
HSPH
- 2012 " Update on HIV Vaccines / HIV Conference  
BWH
- 2012 " Panel on Overview of Clinical Research at BWH / Discussant  
BWH
- 2013 Significance and Innovation for NIH grants / Invited speaker  
Boston Children's Hospital, Boston, MA
- 2013 " Staffing, Regulatory and Financial Obligation / Invited lecture

- CCI Course for Clinical and Translational Researchers, BWH
- 2013 " Resources, 10<sup>th</sup> Annual Introduction to Clinical Research / Invited lecture  
CCI Course, BWH
- 2014 New HIV Vaccines – Ad26/MVA Mosaic Constructs / Invited speaker  
Ragon Symposium, MGH, Boston, MA
- 2014 HIV Vaccine Progress  
Brigham Research Institute, Boston, MA
- 2014 Ebola / Special Lecture  
Harvard School of Public Health, Boston, MA
- 2014 Emerging Infectious Diseases, Grand Rounds, Faulkner Hospital, Boston, MA
- 2014 " Research Leadership / Invited lecture  
CCI Research Course, BWH
- 2014 " Speaker, Resources, 11<sup>th</sup> Annual Introduction to Clinical Research / Invited lecture  
CCI Course, BWH
- 2014 " Emerging Infectious Diseases and Ebola / Invited lecture  
LS-120, HSPH
- 2015 Novel Infectious Syndromes in the Immunocompromised Host, Grand Rounds, West  
Roxbury VAMC, Boston, MA
- 2015 " Biomarkers for Infectious Diseases / Invited lecture  
Biomarker Course, HSPH
- 2015 " Pulmonary Fellows Journal Club / Discussant (4 sessions)  
Pulmonary Division, BWH
- 2015 " Internal Medicine Residents Critical Review of the Literature / Discussant (4 Sessions)  
Department of Medicine, BWH
- 2016 " Pulmonary Fellows Journal Club / Discussant (4 sessions)  
Pulmonary Division, BWH
- 2016 " Internal Medicine Residents Critical Review of the Literature / Discussant (4 Sessions)  
Department of Medicine, BWH
- 2017 " Vaccinology in Adult and Elderly Cohorts / Invited presentation  
1<sup>st</sup> Biennial International Precision Vaccines Conference, HMS
- 2017 " Pulmonary Fellows Journal Club / Discussant (4 sessions)  
Pulmonary Division, BWH

- 2017 " Internal Medicine Residents Critical Review of the Literature / Discussant (4 Sessions)  
Department of Medicine, BWH
- 2018 " Pulmonary Fellows Journal Club / Discussant (4 sessions)  
Pulmonary Division, BWH
- 2018 " Internal Medicine Residents Critical Review of the Literature / Discussant (4 Sessions)  
Department of Medicine, BWH
- 2019 " Pulmonary Fellows Journal Club / Discussant (4 sessions)  
Pulmonary Division, BWH
- 2019 " Internal Medicine Residents Critical Review of the Literature / Discussant (4 Sessions)  
Department of Medicine, BWH
- 2020 " Vaccine Development for COVID-19: A Status Update on the Challenges and Prospects  
for Success / Panel member  
COVID-19 Grand Rounds, Department of Medicine, BWH
- 2020 " Pulmonary Fellows Journal Club / Discussant (4 sessions)  
Pulmonary Division, BWH
- 2020 " Medical Complications of COVID-19/ Speaker  
Renal Grand Rounds, BWH
- 2020 " Internal Medicine Residents Critical Review of the Literature / Discussant (4 Sessions)  
Department of Medicine, BWH
- 2020 " Mapping the Outbreak and Clinical Management / Invited speaker  
A Coordinated, Boston-Wide Response to COVID-19, COVID-19 Grand Rounds,  
Department of Medicine, BIDMC, BWH, and MGH

### **Report of Regional, National and International Invited Teaching and Presentations**

*No presentations below were sponsored by outside entities*

#### **Regional**

- 1997 " Important Infectious Disease Syndromes / Invited lecture  
Framingham Union Hospital, Framingham, MA
- 1998 " Important Infectious Disease Syndromes / Invited lecture  
Framingham Union Hospital, Framingham, MA
- 1999 " Vancomycin-Resistant Enterococcus / Invited speaker  
American Society of Microbiology, Northeast Branch, Waltham, MA
- 2000 " Approach to Fungal Infections / Invited lecture  
Department of Medicine, Jamaica Plain VA, Boston University Medical Center

2001 " The Clinical Importance of Vancomycin-Resistant Enterococcus / Grand Rounds  
Roger Williams Hospital, Brown University, Providence, RI

2008 " Aquatic Infections / Invited lecture  
New England Aquarium, Boston, MA

### **National**

1999 " Responsible Conduct Course: What Worked and What did not Work in the Classroom /  
Invited speaker  
PRIM&R Conference on Educating for the Responsible Conduct of Research in the Next  
Millennium: New Dilemmas, Continuing Questions, and Effective Strategies, Bethesda,  
MD

2000 " Nosocomial Infections / Invited lecture  
Pulmonary Division, University of California (UC) Davis Medical School, Davis, CA

2000 " Infections in the ICU/ Invited speaker  
18<sup>th</sup> Annual UC Davis Infectious Disease Conference, Sacramento, CA

2000 " Infections: Resistance, Recurrence and (Good) Riddance/ Invited speaker  
American Nephrology Nurses' Association, 31<sup>st</sup> National Symposium, Nashville, TN

2000 " Infectious Disease Issues in the Well Transplant Patient / Invited lecture  
Conference on the Primary Care of the Well Transplant Patient, University of Rochester  
Medical Center, Rochester, New York

2002 " The Importance of the VRE in the Oncology Patient / Invited speaker  
Department of Medicine, Duke University, Durham, NC

2002 " Prevention and Therapy of Fungal Infections in Bone Marrow Transplantation /  
Invited speaker  
Acute Leukemia Forum, San Francisco, CA

2002 " Vancomycin Resistant Enterococci and Methicillin Resistant Staphylococcus aureus  
Infections in Transplantation / Invited speaker  
19<sup>th</sup> International Congress of the Transplantation Society, Miami, FL

2002 " New Strategies to Manage VRE / Grand Rounds  
Department of Medicine, Mayo Clinic, Rochester, MN

2003 " Controversies in Anti-Fungal Prophylaxis in Transplantation / Invited speaker  
15<sup>th</sup> Congress of the International Society for Human and Animal Mycology, San  
Antonio, TX

2003 " Prophylaxis of Fungal Infections in Lung Transplantation / Invited speaker  
Bacteriology and Mycology Study Group Meeting, NIH, Washington, DC



- 2003 " Interactive Clinical Cases: Images in ID / Invited speaker  
41<sup>st</sup> Infectious Diseases Society of America, San Diego, CA
- 2004 " Advances in the Diagnosis and Management of Fungal Infections / Grand Rounds  
Department of Medicine, Mt. Sinai Hospital, New York, NY
- 2004 " Transplant ID Talk/Novel Diagnostics for Fungal Infection / Invited lecture  
Department of Medicine, Mt. Sinai Hospital, New York, NY
- 2004 " Zygomycosis: An Emerging Infection? / Invited speaker  
44<sup>th</sup> Interscience Conference on Antimicrobial Agents and Chemotherapeutics,  
Washington, DC
- 2004 " Overview of Biologic Weapon Threat / Invited lecture  
Cyril Wecht Course, Department of Pathology, Duquesne University, Pittsburgh, PA
- 2005 " Pharmacokinetics of Valganciclovir in HSCT Recipients with Gastrointestinal GvHD /  
Invited speaker  
Annual Meeting of the American Society for Blood and Marrow Transplantation,  
Keystone, CA
- 2005 " Approach to Infectious Issues in Transplantation / Invited speaker  
Diabetes Trial Network, NIH, Washington, DC
- 2005 " Treatment of CMV in BMT / Invited speaker  
American Society of Blood and Bone Marrow Transplantation meeting, Keystone, CO
- 2006 " Microbial Forensics / Invited speaker  
Northeast Association of Clinical Microbiology and Infectious Diseases, Boxborough,  
MD
- 2006 " Emerging Infections in HSCT / Grand Rounds  
NIAID, NIH, Bethesda, MD
- 2007 " Opportunistic Infections Associated with Immunotherapy for Rheumatoid Arthritis /  
Invited speaker  
71<sup>st</sup> meeting of the American College of Rheumatology, Boston, MA
- 2009 " Update in HSCT, Immunocompromised Symposium / Invited speaker  
47<sup>th</sup> meeting of the Infectious Diseases Society of America, Philadelphia, PA
- 2009 " Meet the Professor, Tough Mycology Cases / Invited speaker  
47<sup>th</sup> meeting of the Infectious Diseases Society of America, Philadelphia, PA
- 2010 " PCP Diagnosis / Invited speaker  
Focus of Fungus Meeting, New Orleans, LA

- 2010 " Update in Infectious Diseases \ Invited speaker  
American College of Physicians (ACP) Course, Boston, MA
- 2010 Update on Novel Adenovirus Vected Vaccines (Ad26/35) \ Invited speaker  
HIV Vaccine Trials Network meeting, Seattle, WA
- 2011 Evolving Etiology and Management of Infections in the Hematologic Malignancy Patient  
\ Invited speaker  
National Cancer Care Network (NCCN), 6th Annual Congress: Hematologic  
Malignancies, New York, NY
- 2011 " Update in Infectious Diseases \ Invited speaker  
ACP Course, Boston, MA
- 2011 " Secondary Prophylaxis in Immunocompromised HSCT patients and a History of Invasive  
Mold Infections \ Invited speaker  
Meet the Professor Session, 49<sup>th</sup> Infectious Diseases Society of America (ISDA) Meeting,  
Boston, MA
- 2012 " Update in Infectious Diseases \ Invited speaker  
ACP Course, Boston, MA
- 2012 " Moderate Session – Lessons from Clinical Trials \ Invited speaker  
AIDS Vaccine 2012, Boston, MA
- 2013 Infectious Complications of Immunobiologic Therapy for Autoimmune Diseases \ Invited  
speaker  
51<sup>st</sup> ISDA meeting, San Francisco, CA
- 2013 " Publishing in High Impact Journals / Invited speaker  
Howard University, Washington, DC
- 2013 " Getting Published / Invited speaker  
Meeting of the American Medical Student Association, Washington, DC
- 2014 Alternative Research Funding \ Invited speaker  
NIAID and IDSA Fellows Research Meeting, Bethesda, MD
- 2014 Developing a Research Path \ Invited speaker  
NIAID and IDSA Fellows Research Meeting, Bethesda, MD
- 2014 Emerging Infections and Vaccine Development / Invited speaker  
Howard University, Washington, DC
- 2014 Mucosal Immunity of an HIV Vaccine / Invited speaker  
HIV Vaccine Trials Network Meeting, Seattle, WA
- 2015 Diagnosis and Treatment of Infections in the Immunocompromised Host / Invited

- speaker  
41<sup>st</sup> Remington Course, Stanford University, Park City, UT
- 2015 Treatment of Invasive Fungal Infections / Invited speaker  
41<sup>st</sup> Remington Course, Stanford University, Park City, UT
- 2016 " Curbsides in Transplant Infectious Diseases / Invited speaker  
Meet the Professor, IDSA annual meeting, New Orleans, LA
- 2018 " Detecting Pandemics / Visiting Professor  
Clinical Center, NIH, Bethesda, MD
- 2020 " How the World Changed in 12 Weeks, 2019-nCoV, NCIP, SARS-CoV-2, COVID-19 /  
Department of Medicine Grand Rounds  
Albert Einstein College of Medicine, Bronx, NY

### **International**

- 2015 Conducting Clinical Investigation in Resource Challenged Environments / Invited  
speaker/discussant  
Brocher Conference, Geneva, Switzerland
- 2015 " Consultant, Developing Global Norms for Data and Results Sharing During Public  
Health Emergencies  
World Health Organization, Geneva, Switzerland

## **Report of Clinical Activities and Innovations**

### **Current Licensure and Certification**

- 1993 Diplomate, National Board of Medical Examiners  
1994 Massachusetts Medical License  
1995 (through 2018) Diplomate in Internal Medicine, American Board of Internal Medicine  
1998 (through 2018) Diplomate in Infectious Diseases, American Board of Internal Medicine  
2000 Certificate of Knowledge in Clinical Tropical Medicine and Travelers Health  
(American Society of Tropical Medicine and Hygiene)

### **Practice Activities**

- |           |                           |                                                |                  |
|-----------|---------------------------|------------------------------------------------|------------------|
| 1999-     | Inpatient Consult Service | Infectious Diseases, BWH/DFCI                  | 8-20 weeks/year  |
| 1999-     | Attending                 | Outpatient Infectious Diseases<br>Clinic, BWH  | 1-2 clinics/week |
| 2002-2010 | Attending                 | Department of Medicine, BWH                    | 2 weeks/year     |
| 2010-     | Attending                 | Outpatient Infectious Diseases<br>Clinic, DFCI | 1 clinic/week    |

## Report of Education of Patients and Service to the Community

### Activities

- 2003 Hank Williams Homicide Seminar / Invited speaker  
New York State Police  
Lecture for law enforcement personnel: "Bioterror: An Investigators Response"
- 2003 Forensic Pathology Seminar /Invited speaker  
Colby College, ME  
Lecture for law enforcement personnel: "Forensic Aspects of Biologic Agents"
- 2004 Tracking Terrorism in the 21<sup>st</sup> Century: A National Symposium on the Roles of Science and Law  
In Detecting, Investigating and Adjudicating Political Violence / Invited speaker  
Wecht Institute, Pittsburgh, PA  
Lecture for law enforcement personnel: "An overview of the Bioterrorism Threat"

## Report of Scholarship

### Research investigations

- 1) Alexander JP Jr, **Baden L**, Pallansch MA, Anderson LJ. Enterovirus 71 Infections and Neurologic " Disease—United States, 1977-1991. J Infect Dis. 1994;169(4):905-8. "
- 2) Mulholland K, Suara R, Siber G, Robertson D, Jaffar S, N’Jie J, **Baden L**, Thompson C, Anwaruddin " R, Dinan L, Glezen W, Francis B, Fritzell B, Greenwood B. Maternal Immunization with " *Haemophilus influenzae* Type B Polysaccharide-Tetanus Protein Conjugate Vaccine in The Gambia. " JAMA. 1996;275(15):1182-8. "
- 3) Graham JV, **Baden L**, Tsiodras S, Karchmer AW. Q fever endocarditis associated with extensive " serological cross-reactivity. Clin Infect Dis. 2000;30(3):609-10. "
- 4) Solomon DH, Van Houten L, Glynn RJ, **Baden L**, Curtis K, Schragger H, Avorn J. Academic " Detailing to Improve Use of Broad-Spectrum Antibiotics at an Academic Medical Center. Arch Intern " Med. 2001;161(15):1897-902. "
- 5) **Baden LR**, Thiemke W, Skolnik A, Chambers R, Strymish J, Gold HS, Moellering RC Jr, Eliopoulos GM. Prolonged Colonization with Vancomycin-Resistant *Enterococcus faecium* in Long- Term Care Patients and the Significance of "Clearance." Clin Infect Dis. 2001;33:1654-60. "
- 6) Graham CS, **Baden LR**, Yu E, Mrus J, Carnie J, Heeren T, Koziel M. Influence of Human " Immunodeficiency Virus Infection on the Course of Hepatitis C Virus Infection: A Meta-analysis. Clin " Infect Dis. 2001;33(4):562-9. "
- 7) **Baden LR**, Horowitz G, Jacoby H, Eliopoulos GM. Quinolones and False-Positive Urine " Screening for Opiates by Immunoassay Technology. JAMA. 2001;286(24):3115-9. "

- 8) Seto TB, Thomas L, **Baden LR**, Manning WJ. Specialty and training differences in the reported use of endocarditis prophylaxis at an academic medical center. *Am J Med.* 2001;111(8):657-60.
- 9) **Baden LR**, Critchley I, Sahm D, So W, Gedde M, Porter SB, Fuchs HJ, Moellering RC Jr., Eliopoulos GM. Molecular Characterization of Vancomycin-resistant Enterococci Repopulating the Gastrointestinal Tract Following Treatment with a Novel Glycolipodepsipeptide Ramoplanin. *J Clin Micro.* 2002;40(4):1160-3.
- 10) **Baden LR**, Katz JT, Frank L, Tsang S, Hall M, Rubin RH, Jarcho J. Successful Toxoplasmosis Prophylaxis after Orthotopic Cardiac Transplantation with Trimethoprim/Sulfamethoxazole. *Transplantation.* 2003;75(3):339-43.
- 11) Marty FM, Lee SJ, Fahey MM, Alyea EP, Soiffer RJ, Antin JH, **Baden LR**. Infliximab use in patients with severe graft-versus-host disease and other emerging risk factors of non-Candida invasive fungal infections in allogeneic hematopoietic stem cell transplant recipients: a cohort study. *Blood* 2003;102(8):2768-76.
- 12) **Baden LR**, Katz JT, Fishman JA, Koziol C, DeVecchio A, Doran M, Rubin RH. Salvage therapy with voriconazole for invasive fungal infections in patients failing or intolerant to standard antifungal therapy. *Transplantation.* 2003;76(11):1632-37.
- 13) LaRocque RC, Katz JT, Perruzzi P, **Baden LR**. The utility of sputum induction for diagnosis of Pneumocystis pneumonia in immunocompromised patients without human immunodeficiency virus. *Clin Infect Dis.* 2003;37(10):1380-83.
- 14) Walsh TJ, Teppler H, Donowitz GR, Maertens JA, **Baden LR**, Dmoszynska A, Cornely OA, Bourque MR, Lupinacci RJ, Sable CA, dePauw BE. Caspofungin versus liposomal amphotericin B for empirical antifungal therapy in patients with persistent fever and neutropenia. *N Engl J Med.* 2004;351(14):1391-402.
- 15) Fischer MA, Lilly CM, Churchill WW, **Baden LR**, Avorn J. An algorithmic computerized order entry approach to assist in the prescribing of new therapeutic agents: case study of activated protein C at an academic medical centre. *Drug Saf.* 2004;27(15):1253-61.
- 16) Goepfert PA, Horton H, McElrath MJ, Gurunathan S, Ferrari G, Tomaras GD, Montefiori DC, Allen M, Chiu YL, Spearman P, Fuchs JD, Koblin BA, Blattner WA, Frey S, Keefer MC, **Baden LR**, Corey L, NIAID HIV Vaccine Trials Network. High-dose recombinant Canarypox vaccine expressing HIV-1 protein, in seronegative human subjects. *J Infect Dis.* 2005;192(7):1249-59.
- 17) Marty FM, Lowry C, Rodriguez M, Milner DA, Pieciak WS, Sinha A, Fleckstein L, **Baden LR**. Treatment of Human Disseminated Strongyloidiasis with a Parental Veterinary Formulation of Ivermectin. *Clin Inf Dis.* 2005;41(1);e5-8
- 18) Winston DJ, **Baden LR**, Gabriel DA, Emmanouilides C, Shaw LM, Lange WR, Ratanatharathorn V. Pharmacokinetics of ganciclovir after oral valganciclovir versus intravenous ganciclovir in allogeneic stem cell transplant patients with graft-versus-host disease of the gastrointestinal tract. *Biol Blood Marrow Transplant.* 2006;12(6):635-40.

- 19) Martin SI, Marty FM, Fiumara K, Treon SP, Gribben JG, **Baden LR**. Infectious complications associated with alemtuzumab use for lymphoproliferative disorders. *Clin Infect Dis*. 2006;43(1):16-24.
- 20) Marty FM, Lowry CM, Lempitski SJ, Kubiak DW, Finkelman MA, **Baden LR**. Reactivity of (1→3)-beta-d-glucan assay with commonly used intravenous antimicrobials. *Antimicrob Agents Chemother*. 2006;50(10):3450-53.
- 21) Marty FM, Lowry CM, Cutler CS, Campbell BJ, Fiumara K, **Baden LR**, Antin JH. Voriconazole and Sirolimus Co-administration following Allogeneic Hematopoietic Stem Cell Transplantation. *Biol Blood Marrow Transplant*. 2006;12(5):552-9.
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- 23) Russell ND, Graham BS, Keefer MC, McElrath MJ, Self SG, Weinhold KJ, Montefiori DC, Ferrari G, Horton H, Tomaras GD, Gurunathan S, Baglyos L, Frey SE, Mulligan MJ, Harro CD, Buchbinder SP, **Baden LR**, Blattner WA, Koblin BA, Corey L, NIAID HIV Vaccine Trials Network. Phase 2 study of an HIV-1 canarypox vaccine (vCP1452) alone and in combination with rgp120: negative results fail to trigger a phase 3 correlates trial. *J Acquir Immune Defic Syndr*. 2007;44(2):203-12.
- 24) Marty FM, Bryar J, Browne SK, Schwarzberg T, Ho VT, Bassett IV, Koreth J, Alyea EP, Soiffer RJ, Cutler CS, Antin JH, **Baden LR**. Sirolimus-based graft-versus-host disease prophylaxis protects against cytomegalovirus reactivation after allogeneic hematopoietic stem cell transplantation: a cohort analysis. *Blood*. 2007;110(2):490-500.
- 25) Lowry CM, Marty FM, Vargas SO, Lee JT, Fiumara K, Deykin A, **Baden LR**. Safety of aerosolized liposomal versus deoxycholate amphotericin B formulations for prevention of invasive fungal infections following lung transplantation: a retrospective study. *Transpl Infect Dis*. 2007;9(2):121-5.
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- 36) Seaman MS, Wilck MB, **Baden LR**, Walsh SR, Grandpre LE, Devoy C, Giri A, Noble LC, Kleinjan JA, Stevenson KE, Kim HT, Dolin R. Effect of Immunization with Modified Vaccinia Ankara (ACAM3000) on Subsequent Challenge with Dryvax. *J Infect Dis*. 2010;201(9):1353-60.
- 37) Hammond SP, Marty FM, Bryar JM, DeAngelo DJ, **Baden LR**. Invasive fungal disease in patients treated for newly diagnosed acute leukemia. *Am J Hematol*. 2010;85:695-9.
- 38) Koo S, **Baden LR**, Marty FM. Prognostic Features of Galactomannan Antigenemia in Galactomannan-Positive Invasive Aspergillosis. *J Clin Microbiol*. 2010;48:1255-60.
- 39) Kubiak DW, Bryar JM, McDonnell AM, Delgado-Flores JO, Mui E, **Baden LR**, Marty FM. Evaluation of Caspofungin or Micafungin as Empiric Antifungal Therapy in Adult Patients with Persistent Febrile Neutropenia: A Retrospective, Sequential Cohort Analysis. *Clin Ther*. 2010;32(4):637-48.
- 40) Cooper CJ, Metch B, Dragavon J, Coombs RW, **Baden LR** (for the NIAID HIV Vaccine Trials Network (HVTN) Vaccine-Induced Seropositivity (VISp) Task Force). Vaccine-Induced HIV Seropositivity/Reactivity in Noninfected HIV Vaccine Recipients. *JAMA*. 2010;304(3):275-83.
- 41) Wingard JR, Carter SL, Walsh TJ, Kurtzberg J, Small TN, **Baden LR**, Gersten ID, Mendizabal AM, Leather HL, Confer DL, Maziarz RT, Stadtmauer EA, Bolaños-Meade J, Brown J, Dipersio JF, Boeckh M, Marr KA; Blood and Marrow Transplant Clinical Trials Network. Randomized, double-blind trial of fluconazole versus voriconazole for prevention of invasive fungal infection after allogeneic hematopoietic cell transplantation. *Blood*. 2010 Dec 9;116(24):5111-8. Epub 2010 Sep 8

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- 50) Hammond SP, **Baden LR**, Marty FM. Mortality in Hematologic Malignancy and Hematopoietic Stem Cell Transplant Patients with Mucormycosis 2001-2009. *Antimicrob Agents Chemother*. 2011;55(11):5018-21. "
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### **Letters to the Editor**

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- 2) **Baden LR**, Marty FM. Letter to the Editor: Posaconazole for Invasive Aspergillosis? *Clin Infect Dis*. 2007;45(5):664.
- 3) Woolley AE, Fanikos J, **Baden LR**. Heart and Lung Transplants from HCV-Infected Donors. Reply. *N Engl J Med*. 2019;381(10):989. PMID: 31483978

### **Professional educational materials or reports, in print or other media**

- 1) Farrow L, Zand M, **Baden LR**. Ethics for the House Officer: A Primer. First published in 1997. 5th printing 2007. Teaching material for medical residents.
- 2) **Baden L**, Zaleznik D. Epidemiology and pathogenesis of Legionella infection. In: *UpToDate in Pulmonary and Critical Care Medicine*. American Thoracic Society, 1997. (CD-ROM)
- 3) **Baden L**, Zaleznik D. Clinical manifestations and diagnosis of Legionella infection. In: *UpToDate in Pulmonary and Critical Care Medicine*. American Thoracic Society, 1997. (CD-ROM)
- 4) **Baden L**, Zaleznik D. Treatment and prevention of Legionella infection. In: *UpToDate in Pulmonary and Critical Care Medicine*. American Thoracic Society, 1997. (CD-ROM)

- 5) Contributor to Update and Intensive Review of Internal Medicine, Department of Medicine, BIDMC. August 1998. (CD-ROM)
- 6) **Baden L**, Evangelista F. Virus Associated Hemophagocytic Syndrome. *Blood* 1999;93(6):1991.
- 7) Contributor to the HIV Virtual Patient. Carl J. Shapiro Institute for Medical Education, BIDMC and HMS. 2001. (CD-ROM and online tutorial used to teach medical students and residents)
- 9) Fazio SB, **Baden LR**. Electronic, Case based, Education Program for Medical Trainees. In depth cases linking clinical presentation, radiology, and pathology, and pathophysiology. Presented at Medical Education Day, HMS, October 2002 and October 2003.
- 8) Contributor of multiple clinical photographs to Kasper DL, Braunwald E, Fauci AS, Hauser SL, Longo DL, Jameson JL, editors. *Harrison's Principles of Internal Medicine*. 16th ed. McGraw-Hill. 2004.
- 10) Images in Infectious Diseases. A website developed between BWH and MGH that demonstrates various Infectious Disease presentations. Developed by Gandhi R, Cort A, and **Baden LR** in collaboration with IDSA. URL: [www.idimages.org](http://www.idimages.org).