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CURRICULUM VITAE
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EDUCATION

Undergraduate

1978 B.S. Grove City College, Grove City, PA (Biology)

Medical School

1987 M.D. Case Western Reserve University School of Medicine, Cleveland, OH

Graduate school

1979 Kent State University, Kent, OH (Biochemistry)

1983 Ph.D. Case Western Reserve University, Cleveland, OH (Biochemistry)
Advisor: Mulchand S. Patel, PhD

POSTGRADUATE TRAINING

Residency

1987 - 1988 Intern in Medicine, Brigham and Women's Hospital, Boston, MA

1988 - 1990 Assistant and Senior Resident in Medicine, Brigham and Women's Hospital, Boston, MA

1989 Chief Medical Resident, West Roxbury Division, Brockton/West Roxbury VA Medical Center (3 months)

Fellowships

1990 - 1994 Fellow in Infectious Disease, Massachusetts General Hospital,

2003 – 2004 Executive Leadership in Academic Medicine (ELAM), Fellow, Institute for Women's Health and Leadership, Drexel University College of Medicine

- 2005 Woodruff Leadership Academy, Woodruff Health Sciences Center, Atlanta, GA
- 2013 Leadership Development for Physicians in Academic Health Centers, Harvard School of Public Health, Boston, MA

POSTGRADUATE HONORS AND AWARDS

- 1978 Magna Cum Laude, Grove City College, Grove City, PA
- 1987 Alpha Omega Alpha, Case Western Reserve University School of Medicine
- 1987 American College of Physicians, Ohio Chapter - Award to the Outstanding Student Entering Internal Medicine
- 1997 Faculty Prize for Excellence in Teaching Clinical Pathology Residents, Massachusetts General Hospital
- 1999 ASM Foundation for Microbiology Lecturer, American Society for Microbiology
- 1999 Outstanding Speaker Award, American Association for Clinical Chemistry
- 2001 Golden Apple Teaching Award, Department of Pathology and Laboratory Medicine, Emory University School of Medicine
- 2002 Emory University Attending Teaching Award, Department of Medicine, Emory University School of Medicine
- 2003 Emory University Attending Teaching Award, Department of Medicine, Emory University School of Medicine
- 2004 Outstanding Editorial Board Member, Journal of Clinical Microbiology
- 2006 Anna Lee Boyett Award, In recognition of outstanding support to the Department of Pathology Residency Training Program, Department of Pathology and Laboratory Medicine, Emory University School of Medicine
- 2007 Fellow, Infectious Diseases Society of America
- 2010 Silver Pear Mentoring Award – Clinical, Department of Medicine, Emory University School of Medicine, Atlanta, GA
- 2011 Clinical and Laboratory Standards Institute Award in recognition of leadership and service
- 2011 Enders Lecturer, Infectious Diseases Society of America
- 2013 Fellow, American College of Physicians

2014	Ed Nowakowski Senior Memorial Clinical Virology Award, Pan American Society for Clinical Microbiology
2014	BD Award for Research in Clinical Microbiology, American Society for Microbiology
2014	Master of Arts <i>ad eundem</i> , Brown University, Providence, RI
2014	Gardner Lecture, European Society of Clinical Virology
2016	Industry Leader, Healthcare Services, Business Women's Award, Providence Business Journal
2018	Fellow, American Academy of Microbiology
2018	Steven M. Opal Teaching Award, Fellows of the Division of Infectious Diseases, Alpert Medical School of Brown University
2019	Beckwith Family Award for Outstanding Teaching, Department of Medicine, Warren Alpert Medical School of Brown University
2020	Warren Alpert Foundation Professor of Medicine, Warren Alpert Medical School of Brown University
2020	Steven M. Opal Teaching Award, Fellows of the Division of Infectious Diseases, Alpert Medical School of Brown University
2022	Certificate of Appreciation in Recognition of Mentoring in Internal Medicine, American College of Physicians
2023	Milton Hamolsky Lifetime Achievement Award, Rhode Island Chapter, American College of Physicians
2023	Distinguished Alumni Award in Medicine-related PhD or MD/PhD Category, Medical Alumni Board, CWRU School of Medicine, Cleveland, OH

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

1989	Commonwealth of Massachusetts Medical License, #70278
1999	Georgia State Medical License, # 046742, issued 3/99
1990	Diplomate in Internal Medicine, American Board of Internal Medicine
1992	Diplomate in Infectious Diseases, American Board of Internal Medicine
2002	Recertification, Diplomate in Infectious Diseases, American Board of Internal Medicine
2012	Recertification, Diplomate in Infectious Diseases, American Board of Internal Medicine
2012	Rhode Island State Medical License, MD14106

ACADEMIC APPOINTMENTS

1994 - 1997	Instructor in Pathology, Harvard Medical School
1997 - 1999	Assistant Professor of Pathology, Harvard Medical School

- 1999 - 2001 Assistant Professor, Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta, GA
- 2000 - 2002 Assistant Professor, Medicine, Emory University School of Medicine, Atlanta, GA
- 2001 - 2006 Associate Professor, Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta, GA
- 2002 - 2009 Associate Professor, Medicine, Emory University School of Medicine, Atlanta, GA
- 2003 - 2013 Vice Chair, Clinical Pathology, Department of Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta, GA
- 2006 - 2013 Professor (Tenure), Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta, GA.
- 2009 - 2013 Professor, Medicine, Emory University School of Medicine, Atlanta, GA
- 2013 - 2015 Professor (Research), Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta, GA.
- 2013 - present Executive Vice Chair, Department of Medicine, Alpert Medical School, Brown University, Providence, RI (anticipated start date 1/2013)
- 2013 - 2018 Director, Division of General Medicine, Department of Medicine, Alpert Medical School, Brown University, Providence, RI
- 2013 - present Professor (Research Scholar Track) Department of Medicine, Warren Alpert Medical School of Brown University, Providence, RI.
- 2020 - present Warren Alpert Foundation Professor of Medicine, Warren Alpert Medical School of Brown University, Providence, RI

HOSPITAL APPOINTMENTS

- 1994 - 1997 Assistant in Microbiology (Pathology), Massachusetts General Hospital, Boston, MA
- 1997 - 1999 Assistant Microbiologist (Pathology), Massachusetts General Hospital, Boston, MA
- 1994 - 1998 Clinical Assistant in Medicine, Massachusetts General Hospital, Boston, MA
- 1998 - 1999 Assistant in Medicine, Massachusetts General Hospital, Boston, MA
- 1999 - 2013 Medical Director of Clinical Microbiology and Molecular Diagnostics, Emory University Hospital, Atlanta, GA
- 1999 - 2013 Attending Physician, Infectious Diseases Division, Emory University Hospital, Atlanta, GA
- 2001 - 2013 Medical Director, Emory Medical Laboratories, Emory University Hospital, Atlanta, GA
- 2002 - 2006 Director, Clinical Laboratories, Egleston Children's Hospital, Children's Healthcare of Atlanta, Atlanta, GA
- 2006 - 2010 Consultant, Molecular Microbiology, Children's Healthcare of Atlanta, Atlanta, GA.
- 2007 - 2010 Director, Infectious Diseases, Emory University Hospital, Atlanta, GA.
- 2013 - present Infectious Diseases Consultant, Rhode Island Hospital, Providence, RI

OTHER APPOINTMENTS

Administrative Appointments

- 1995 - 1999 Residency Recruiting Committee, Pathology Department, Massachusetts General Hospital, Boston, MA
- 1998 - 1999 Laboratory Medicine Clinical Advisory Committee, Pathology Department, Massachusetts General Hospital, Boston, MA
- 1998 - 1999 Core Laboratory Committee, Pathology Department, Massachusetts General Hospital, Boston,

- 2000 - 2013 Executive Committee, Department of Pathology, Emory University, Atlanta, GA
- 2002 - 2013 Director, Clinical Pathology, Department of Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta,
- 2001 - 2013 Infectious Diseases Division Executive Committee, Emory University School of Medicine, Atlanta, GA
- 2001 - 2013 Director, Medical Microbiology Fellowship, Department of Pathology and Laboratory Medicine, Emory University Hospital, Atlanta, GA
- 2004 - 2013 Co-Director, Virology Core, Center for AIDS Research, Emory University School of Medicine, Atlanta, GA.
- 2010 - 2013 Director or Academic Affairs, Emory Healthcare, Atlanta, GA.
- 2013 - present Vice President, Brown Medicine Foundation (Formerly University Medicine), Providence, RI.
- 2015 - present Director and Creator, University Medicine Leadership Course (currently Brown Physicians Leadership Course)
- 2016 - 2018 Interim, Chief Executive Office, Brown Physicians Inc, Providence, RI
- 2018 - present President/Executive Director, Brown Physicians Inc, Providence, RI
- 2021 - present Co-chair, Leadership Development Council, Lifespan

National/International

- 1995 - 2004 Advisor, Subcommittee on Antiviral Susceptibility Testing, National Committee for Clinical Laboratory Standards (NCCLS).
- 1995 - 2000 ACTG 301 - Protocol Virologist
- 1996 - 1999 Investigator, AIDS Clinical Trials Group (ACTG)
- 1997 - 2003 Member, Subcommittee on Quantitative Molecular Diagnostics for Infectious Diseases, National Committee for Clinical Laboratory Standards (NCCLS).
- 1997 - 1999 Member, Complications of HIV Disease RAC Viral Diseases Pathogen Study Group
- 1998 - 2000 Member, CMV Quantitation Working Group (ACTG)
- 2000 - 2006 Member, Molecular Genetic Pathology Test Committee, American Board of Pathology
- 2000 Member, Study Section, National Institutes of Health, Infectious Diseases and Microbiology, SBIR Grants
- 2000 - 2003 Co-Chairman, CMV Quantitation Working Group (ACTG)
- 2002 - 2005 Member, Subcommittee for Genotyping for Infectious Diseases, Clinical and Laboratory Standards Institute (formerly NCCLS).
- 2003 Strategic Planning Group, Association of Molecular Pathology
- 2006 - 2011 Member, Microbiology Resource Committee, College of American Pathologist
- 2006 - 2007 Member, Molecular Pathology Resource Committee, College of American Pathologists
- 2008- 2010 Co-Chair, Subcommittee on Quantitative Molecular Methods for Infectious Diseases, Clinical and Laboratory Standards Institute
- 2009 - 2013 Program Committee Member, Annual Meeting Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC)
- 2011 - 2018 Chair, Microbiology Medical Devices Panel, FDA
- 2012 Organizing Committee, Scientific Working Group on the Standardization of Genome Amplification Techniques, 24th Blood Virology and 4th Clinical Diagnostics Meeting, Ljubljana, Slovenija May 2013.
- 2014 - 2019 Organizing Committee, Scientific Working Group on the Standardization of Genome Amplification Techniques
- 2012 - 2016 Chair, Diagnostics Task Force, Infectious Diseases Society of America

2014 - 2015	Awards Committee, Association of Molecular Pathology
2015 - 2019	Presidential Advisory Council on Combating Antibiotic Resistant Bacteria, Health and Human Services
2014 - 2018	Member, Program Committee, Clinical Virology Symposium, ASM
2019 -	Scientific Advisory Board, Scientific Working Group on the Standardization of Genome Amplification Techniques
2020- 2021	Member, IDSA Guidelines Committee on the Diagnosis of COVID-19
2020-2022	Co-Chair, COVID-19 Diagnostic Task Force for the Rhode Island Department of Health
2021 -	Member, Group on Faculty Practice, Association of American Medical Colleges
2022 -	Member, Laboratory Workgroup of the Advisory Committee to the Director, Centers for Disease Control and Prevention

Editorships and Editorial Boards

1996 - 2004	Editorial Board, Antiviral Therapy
1999 - 2007	Editorial Board, Journal of Molecular Diagnostics
1999 - 2001	Editorial Board, Molecular Diagnosis
2002 - 2010	Editorial Board, Journal of Clinical Microbiology
2002 - 2007	Editorial Board, Clinical Microbiology Reviews
2005 - 2016	Associate Editor, Journal of Clinical Virology
2007 - 2012	Editor, Clinical Microbiology Reviews
2008 - 2012	Associate Editor, Journal of Molecular Diagnostics
2013 - 2022	Editor, Journal of Clinical Microbiology
2013 - 2021	Editorial Board, Journal of Molecular Diagnostics
2015 -	Editorial Advisory Board, Open Forum Infectious Diseases
2019 -	Editorial Advisory Board, Journal of Infectious Diseases

Manuscript Reviewer (Ad hoc)

New England Journal of Medicine
 Clinical Infectious Diseases
 Journal of Clinical Microbiology
 Journal of Infectious Diseases
 Molecular Diagnosis
 Antimicrobial Agents and Chemotherapy
 Clinical Chemistry
 American Journal of Transplantation
 Journal of Viral Hepatitis
 AIDS Research and Human Retroviruses

HOSPITAL or HEALTHCARE COMMITTEES

1999 – present	Antibiotic Usage/Assistance Committee, Emory University Hospital, Atlanta, GA
2000 - present	Chair Laboratory Operations Committee, Emory University and Emory University Hospital Midtown (Crawford Long Hospitals), Atlanta, GA
2000 - 2004	Member, Laboratory Services Advisory Committee, Crawford Long Hospital, Atlanta
2001 - 2004	Member, Laboratory/AP Governance Committee, Emory University Hospital, Atlanta
2001 - 2004	Member, Laboratory Services Advisory Committee, Emory University Hospital, Atlanta, GA
2002 - 2005	Chair, Laboratory Services Committee, The Emory Clinic, Atlanta
2001 - 2010	Member, Contract Pricing Committee, Emory Healthcare, Atlanta, GA

2002 - 2004 Emory Electronic Medical Record Executive Decision Team, Emory Healthcare, Atlanta, GA

2003 - 2008 Emory Clinic CEO Advisory Committee, The Emory Clinic, Atlanta, GA

2004 - 2013 Risk Management Liaison for the Department of Pathology, Emory Healthcare, Atlanta, GA

2004 - 2009 Professional Services Committee, Emory University Hospital, Atlanta, GA

2005 - 2013 Member, Ad hoc Committee-Physicians Benefits, Emory Healthcare, Atlanta, GA

2005 - 2006 Member, Search Committee for Chief Nursing Officer, Emory Healthcare

2006 - 2008 Physician Advisory Committee for EeMR, Emory Healthcare, Atlanta, GA

2007 - 2013 Medical Practice Committee, Emory University Hospital, Atlanta, GA

2007 - 2013 Medical Executive Committee, Emory University Hospital, Atlanta, GA

2007 - 2008 Member, Search Committee for Chief Human Resources Officer, Emory Healthcare

2009 - 2013 Member, Physician Steering Committee for Clinical Design, Emory Healthcare

2010 - 2013 Member, Quality Council, Emory Healthcare, Atlanta, GA

2013 - 2015 Chair, Patient Flow Committee, Rhode Island Hospital, Providence, RI

2016 - present Member, Information Services Strategy and Planning Council, Lifespan

2016 - 2018 Member Cancer Center Operations Council, Lifespan

2018 - 2019 Member, GE/Lifespan Capacity Optimization Steering Committee

2019 - Member, Physicians Advisory Council, Lifespan

2019 - 2020 Member, Search Committee, Executive Vice President, Chief Clinical Officer, Lifespan

2020 - Quality Oversight Committee, Rhode Island Hospital, Providence RI

2021 - Co-Chair, Laboratory Stewardship Committee, Lifespan, Providence, RI

2022 Member, President and Chief Executive Officer Search Committee, Lifespan, Providence, RI

2023 Member, Chief Hospital Operations/President of Rhode Island Hospital Search Committee, Lifespan, Providence, RI

UNIVERSITY COMMITTEES

1999 - 2000 Chairman, Ad Hoc Microarray/Translational Research Committee, Department of Pathology, Emory University, Atlanta, GA

1999 - 2000 Member, Search Committee, Technical Director, Microbiology Laboratory, Grady Hospital, Atlanta, GA

2000 - 2013 Infectious Diseases Fellowship Education Committee, Emory University School of Medicine, Division of Infectious Diseases, Atlanta, GA

2000 - 2013 Residency Committee, Emory University School of Medicine, Department of Pathology, Atlanta, GA

2001 Member, Search Committee, Chairman, Orthopedics Department, Emory University School of Medicine, Atlanta, GA

2002 Member, School of Medicine Organizational Reassessment Committee, Emory University School of Medicine, Atlanta, GA

2002 - 2013 Member, Promotions Committee, Department of Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta, GA

2003 - 2004 Chair, Search Committee, Director, Clinical Microbiology, Children's Healthcare of Atlanta, Atlanta, GA

2004- 2007	Reviewer, Seed Grants, Department of Pediatrics, Emory University School of Medicine, Atlanta, GA (annual review)
2004	Opportunity Committee, Pan-University Ad Hoc Faculty Group, Emory University, Atlanta, GA
2004 - 2005	Chair, Search Committee, Director, Core Laboratory, Children's Healthcare of Atlanta, Atlanta, GA
2005	Chair, Search Committee, Director Clinical Laboratories, Grady Memorial Hospital, Atlanta, GA
2006	Member, Search Committee, Director of Anatomical Pathology, Emory University School of Medicine, Atlanta, GA.
2012	Member, Dean Search Committee, Emory University School of Medicine
2013	Member, Search Committee for Chair of Pediatrics, Alpert Medical School of Brown University, Providence, RI
2013-	Member, Medical Faculty Executive Committee, Alpert Medical School at Brown University, Providence, RI
2014-	Chair, Search Committee for Director of Division of Hematology/Oncology, Alpert Medical School of Brown University
2015	Member, Search Committee for Chair of Orthopedics, Alpert Medical School of Brown University, Providence, RI
2015	Member, Search Committee, Executive Dean for Administration, Alpert Medical of Brown University
2017 - 2018	Member, Search Committee, Chair of Emergency Medicine, Alpert Medical School of Brown University, Providence, RI
2019 -	Member, Brown Dermatology Board of Directors
2021	Member, Search Committee, Dean, Warren Alpert Medical School
2021 -	Member, Brown Emergency Medicine Board of Directors
2021 -	Member, Diversity, Equity and Inclusion Committee, Department of Medicine, Alpert Medical of Brown University
2023	Member, Search Committee Chief Cardiovascular Surgery, Alpert Medical School of Brown University, Providence , RI

MEMBERSHIP IN SOCIETIES

1991 - present	Infectious Disease Society of America
	Offices Held: 2011 - 2014 Member, Research Committee
	2012 - 2016 Chair, Diagnostics Task Force
	2016 - 2019 Member, Board of Directors
	2018 - 2019 Chair, Special Task Force on Publishing
	2019 - 2022 Secretary
	2021 Search Committee, Editor in Chief, Clinical Infectious Diseases
	2023 IDWeek Task Force
1992 - present	American College of Physicians
1993 - 1995	American Medical Women's Association
1995 - present	American Society for Microbiology
	Offices Held: 2015 Education Task Force
	2018 - 2020 Meeting Strategy Committee
1995 - present	Association for Molecular Pathology
	Offices Held: 2000 Chair, Infectious Diseases Subdivision

	2001 - 2009	Member, Professional Relations Committee
	2003	Member, Strategic Planning Group
	2003 - 2005	President-Elect, President, Past-President
	2014- 2015	Awards Committee
1997 - present	Pan American Society for Clinical Virology	
	Offices Held: 2002 - 2006	Council Member
	2008 -2014	President-Elect, President, Past-President
2000 - 2012	American Association of Clinical Chemists	
2018 - present	American Academy of Microbiology	
	Offices Held: 2018 - 2021	Governors Nominating Subcommittee
	2021 -	Subcommittee on Elections

PUBLICATIONS LIST

Original Publications in Peer-Reviewed Journals

1. **Caliendo AM**, and Patel MS. Insulin Receptors in Developing Rat Liver: Acquisition of Regulation in the Immediate Postnatal Period. *Archives of Biochemistry and Biophysics*. 1983; 227:552-561.
2. Haney PM, Estrin CR, **Caliendo AM**, and Patel MS. Precocious Induction of Hepatic Glucokinase and Malic Enzyme in Artificially Reared Rat Pups Fed a High-Carbohydrate Diet. *Archives of Biochemistry and Biophysics*. 1986; 244:787-794.
3. Ho L, Javed AA, Pepin RA, Thekkumkara TJ, Raefsky C, Mole JE, **Caliendo AM**, Kwon MS, Kerr DS, and Patel MS. Identification of A cDNA Clone for the B-Subunit of the Pyruvate Dehydrogenase Component of Human Pyruvate Dehydrogenase Complex. *Biochemical and Biophysical Research Communications*. 1988; 150:904-908.
4. Eron JJ, Chow Y-K, **Caliendo AM**, Videler J, DeVore K, Cooley TC, Liebman H, Kaplan J, Hirsch MS, and D'Aquila RT. Pol mutations conferring zidovudine and didanosine resistance with different effects in vitro yield multiply resistant human immunodeficiency virus type 1 isolates in vivo. *Antimicrobial Agents & Chemotherapy*. 1993; 37:1480-1487.
5. Zhang D, **Caliendo AM**, Eron JJ, DeVore KM, Kaplan JC, Hirsch MS, and D'Aquila RT. Resistance to 2', 3'-dideoxycytidine conferred by a mutation in codon 65 of human immunodeficiency virus type 1 reverse transcriptase. *Antimicrobial Agents & Chemotherapy*. 1994; 38:282-287.
6. **Caliendo AM**, Jordan CD, and Ruoff KL. *Helcococcus*, a new genus of catalase-negative, gram positive cocci isolated from clinical specimens. *Journal of Clinical Microbiology*. 1995; 33:1638-1639.
7. **Caliendo AM**, Savara A, An D, DeVore KM, Kaplan JC, and D'Aquila RT. Effects of zidovudine-selected HIV-1 reverse transcriptase amino acid substitutions on processive DNA synthesis and viral replication. *Journal of Virology*. 1996; 70:2146-2153.

8. Harrer T, Harrer E, Kalams SA, Elbeik T, Feinberg M, Cao Y, Ho DD, Tilahun Y, **Caliendo AM**, Johnson RP, Buchbinder S, and Walker BD. Strong cytotoxic T cells and weak neutralizing antibodies responses in a subset of persons with stable non-progressing HIV type 1 infection. *AIDS Research & Human Retroviruses*. 1996; 12:585-592.
9. Manion DJ, Vibhagool A, Chou T-C, Kaplan J, **Caliendo AM**, and Hirsch MS. Susceptibility of human cytomegalovirus (HCMV) to 2-drug combinations in vitro. *Antiviral Therapy*. 1996; 1:237-245.
10. Farrar DJ, Cu Uvin S, **Caliendo AM**, Costello SF, Murphy DM, Flanigan TP, Mayer KH, and Carpenter CCJ. Detection of HIV-1 RNA in vaginal secretions of HIV-1-seropositive women who have undergone hysterectomy [Letter]. *AIDS*. 1997; 11:1296-1297.
11. Hass J, Jernick SL, Scardina J, Teruya J, **Caliendo AM**, and Ruoff KL. Colonization of skin by *Helcococcus kunzii*. *Journal of Clinical Microbiology*. 1997; 35:2759-2761.
12. Cu Uvin S and **Caliendo AM**. Cervicovaginal human immuno-deficiency virus secretion and plasma viral load in human immuno-deficiency virus-seropositive women. *Obstetrics & Gynecology*. 1997; 90:739-743.
13. Rosenberg ES, Billingsley JM, **Caliendo AM**, Boswell SL, Sax P, Kalams SA, Walker BD. Vigorous HIV-1-specific CD4+ T cell responses associated with control of viremia. *Science*. 1997; 278:1447-1450.
14. **Caliendo AM**, Hewitt PL, Allega JM, Keen A, Ruoff KL, and Ferraro MJ. Performance of a PCR assay for the detection of *Pneumocystis carinii* from respiratory specimens. *Journal of Clinical Microbiology*. 1998; 36:979-982.
15. Cu Uvin S **Caliendo AM**, Reinert, Mayer KH, Flanigan TP, and Carpenter CC. HIV-1 in the female genital tract and the effect of antiretroviral therapy [Letter]. *AIDS*. 1998; 12:826-7.
16. Akpek EK, Kent C, Jakobiec F, **Caliendo AM**, and Foster CS. Bilateral acute retinal necrosis caused by cytomegalovirus in an immunocompromised patient. *American Journal of Ophthalmology*. 1999; 127:93-5.
17. Rosenberg ES, **Caliendo AM**, and Walker BD. Acute HIV infection among patients tested for mononucleosis [Letter]. *New England Journal of Medicine*. 1999; 340:969.
18. Humar A, Gregson D, **Caliendo AM**, McGeer A, Malkan G, Krajden M, Corey P, Greig P, Walmsley S, Levy G, and Mazzulli T. Clinical utility of quantitative cytomegalovirus viral load determination for predicting cytomegalovirus disease in liver transplant recipients. *Transplantation*. 1999; 68:1305-1311.
19. Murphy RL, Gulick RM, DeGruttola V, D'Aquila RT, Eron JJ, Sommadossi J-P, Currier JS, Smeaton L, Frank I, **Caliendo AM**, Gerber JG, Tung R, and Kuritzkes DR, for the AIDS Clinical Trials Group 347 Study Team. Treatment with amprenavir alone or amprenavir with zidovudine and lamivudine in adults with human immunodeficiency virus infection. *Journal of Infectious Diseases*. 1999; 179:808-16.
20. Tashima KT, **Caliendo AM**, Ahmad M, Gormley JM, Fiske WD, Brennan JM, and Flanigan TP. Cerebrospinal fluid (CSF) human immunodeficiency virus type 1 (HIV-1) suppression and efavirenz drug concentrations in HIV-1 infected patients receiving combination therapy. *Journal of Infectious Diseases*. 1999; 180:862-4.

21. Ahmad M, Tashima KT, **Caliendo AM**, and Flanigan TP. Cerebrospinal fluid and plasma HIV-1 RNA stability at 4°C. *AIDS*. 1999; 13:1281-1282.
22. Mani I, Cao H, Hom D, Johnson JL, Mugerwa RD, Travers KU, **Caliendo AM**, Walker BD, and Kanki PJ. Plasma RNA viral load as measured by the bDNA and NASBA assays of HIV-1 subtypes A and D in Uganda. *JAIDS Journal of Acquired Immune Deficiency Syndromes*. 1999; 22(2):208-209.
23. Witt DJ, Kemper M, Stead A, Ginocchio CC, and **Caliendo AM**. Relationship of incremental specimen volumes and enhanced detection of human immunodeficiency virus type-1 RNA with nucleic acid amplification technology. *Journal of Clinical Microbiology*. 2000; 38: 85-89.
24. Cu-Uvin S, **Caliendo AM**, Reinnert S, Chang A, Juliano-Remollino C, Flanigan TP, Mayer KH, and Carpenter CCJ. Effect of highly active antiretroviral therapy on cervicovaginal HIV-1 RNA. *AIDS*. 2000; 14:415-421.
25. **Caliendo AM**, St. George K, Kao S-Y, Allega J, Tan B, LaFontaine R, Bui L, and Rinaldo CR. Quantitative CMV PCR in Plasma as Compared with CMV Antigenemia: Clinical Utility of the Prototype AMPLICOR CMV MONITOR Test in Transplant Recipients. *Journal of Clinical Microbiology*. 2000; 38:2122-2127.
26. Shacklett BL, Cu-Uvin S, Beadle TJ, Pace CA, Fast NM, Donahue SM, **Caliendo AM**, Flanigan TP, Carpenter CCJ, and Nixon DF. Quantification of HIV-1-specific T-cell responses at the mucosal cervicovaginal surface. *AIDS*. 2000; 14:1911-1915.
27. Henderson D. **Caliendo AM**. Antiretroviral rounds. A red herring? *AIDS Clinical Care*. 2000; 12(8):66-7.
28. Witt DJ, Kemper M, Stead A, Sillekens P, Ginocchio CC, Espy MJ, Paya CV, Smith TF, Roeles F, and **Caliendo AM**. Analytical performance and clinical utility of a nucleic acid sequenced-based amplification assay for detection of cytomegalovirus infection. *Journal of Clinical Microbiology*. 2000; 38:3994-3999.
29. Fitzgerald DW, Behets F, **Caliendo A**, Roberfroid D, Lucet C, Fitzgerald JW, and Kuykens L. Economic hardship and sexually transmitted diseases in Haiti's rural Artibonite Valley. *American Journal of Tropical Medicine & Hygiene*. 2000; 62:496-501.
30. **Caliendo AM**, Schuurman R, Yen-Liebermann B, Spector SA, Andersen J, Manjiry R, Crumpacker C, Lurain N, and Erice A, for the CMV Working Group Complications of HIV Disease RAC, AIDS Clinical Trials Group (ACTG). Comparison of quantitative and qualitative PCR assays for CMV DNA in plasma. *Journal of Clinical Microbiology*. 2001; 39:1334-1338.
31. CuUvin S, Hogan JW, **Caliendo A**, Harwell J, Mayer K, and Carpenter CCJ. Association between bacterial vaginosis and expression of HIV-1 RNA in the female genital tract. *Clinical Infectious Diseases*. 2001; 33(6):894-896.
32. Humar A, Kumar D, **Caliendo AM**, Moussa G, Ashi-Sulaiman A, Levy G, and Mazzulli T. Clinical impact of human herpesvirus 6 infection after liver transplantation. *Transplantation*. 2002; 73:599-604.

33. Humar A, Kumar D, Raboud J, **Caliendo AM**, Moussa G, Levy G, and Mazzulli T. Interactions between cytomegalovirus, human herpesvirus-6, and the recurrence of hepatitis C after liver transplantation. *American Journal of Transplantation*. 2002; 2(5):461-6.
34. **Caliendo AM**, St. George K, Allega J, Bullotta AC, Gilbane L, and Rinaldo CR. Distinguishing cytomegalovirus (CMV) infection and disease with CMV nucleic acid assays. *Journal of Clinical Microbiology*. 2002; 40:1581-1586.
35. Langston AA, Redei I, **Caliendo AM**, Somani J, Hutcherson D, Lonial S, Bucur S, Cherry J, Allen A, and Waller EK. Development of drug-resistant herpes simplex virus infection after haploidentical hematopoietic progenitor cell transplantation. *Blood*. 2002; 99(3): 1085-1088.
36. Humar A, Dumar D, Boivin G, and **Caliendo A**. Cytomegalovirus (CMV) viral load kinetics to predict recurrent disease in solid organ transplant patients with CMV disease. *Journal of Infectious Diseases*. 2002; 186 (6): 829-833.
37. Simko JP, **Caliendo AM**, Hogle K, and Versalovic J. Differences in laboratory findings for cerebrospinal fluid specimens obtained from patients with meningitis or encephalitis due to herpes simplex virus (HSV) documented by detection of HSV DNA. *Clinical Infectious Diseases*. 2002; 35: 414-419.
38. Fiebelkorn KR, Lee BG, Hill CE, **Caliendo AM**, and Nolte FS. Clinical evaluation of an automated nucleic acid isolation system. *Clinical Chemistry*. 2002; 48(9): 1613-1615.
39. Nolte FS, Green AM, Fiebelkorn KR, **Caliendo AM**, Sturchio C, Grunwald A, and Healy M. Clinical evaluation of two methods for genotyping hepatitis C virus based on analysis of the 5' noncoding region. *Journal of Clinical Microbiology*. 2003; 41: 1558-1564.
40. **Caliendo AM**, Yen-Lieberman B, Baptista J, Andersen J, Crumpacker C, Schuurman R, Spector S, Bremer J, and Lurain N. Comparison of molecular tests for detection and quantification of cell-associated cytomegalovirus DNA. *Journal of Clinical Microbiology*. 2003; 41:3509-3513.
41. Zimmer SM, **Caliendo AM**, Thigpen MC, and Somani J. Failure of linezolid treatment for enterococcal endocarditis. *Clinical Infectious Diseases*. 2003; 37: e29-30.
42. Culler EE, **Caliendo AM**, and Nolte F. Reproducibility of positive test results in the BDProbeTec ET system for detection of *Chlamydia trachomatis* and *Neisseria gonorrhoeae*. *Journal of Clinical Microbiology*. 2003; 41(8): 3911-3914.
43. Lee BG, Fiebelkorn KR, **Caliendo AM**, and Nolte F. Development and verification of an automated sample processing protocol for quantitation of human immunodeficiency virus type 1 RNA in plasma. *Journal of Clinical Microbiology*. 2003; 41(5): 2062-2067.
44. Harwell JI, Flanigan TP, Mitty JA, Macalino GE, **Caliendo AM**, Ingersoll J, Stenzel MS, Carpenter CCJ, and Cu-Uvin S. Directly observed antiretroviral therapy to reduce genital tract and plasma HIV-1 RNA in women with poor adherence. *AIDS*. 2003; 17 (13): 1990-1993.
45. De Pasquale MP, Leigh Brown AJ, Cu-Uvin S, Allega-Ingersoll J, **Caliendo AM**, Sutton L, Donahue S, and D'Aquila RT. Differences in HIV-1 pol sequences from female genital tract and blood during antiretroviral therapy. *JAIDS*. 2003; 34(1):37-44.

46. Erice A, Tierney C, Hirsch M, and **Caliendo AM**. Weinberg A. Kendall MA. Polsky B. AIDS Clinical Trials Group Protocol 360 Study Team. Cytomegalovirus (CMV) and human immunodeficiency virus (HIV) burden, CMV end-organ disease, and survival in subjects with advanced HIV infection (AIDS Clinical Trials Group Protocol 360). *Clinical Infectious Diseases*. 2003; 37(4):567-78.
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145. Preiksaitis JK, Hayden RT, Tong Y, Pang XL, Fryer JF, Heath AB, Cook L, Petrich AK, Yu B and **Caliendo AM**. Are we there yet? Impact of the 1st International Standard for Cytomegalovirus DNA on the Harmonization of Results Reported on Plasma Samples.

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151. **Caliendo AM** and Hodinka RL. A CRISPR way to diagnose infectious diseases. *N Engl J Med* 2017;377:1785-87.
152. Lorenz ML, Bouton TC and **Caliendo AM**. First reported case of vertebral osteomyelitis due to *Erysipelothrix rhusiopathiae*. *IDCases* 2017; Nov 10;11:3-5. doi: 10.1016/j.idcr.2017.11.002. eCollection 2018.
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175. Sam SS, Rogers R, Gillani FS, Tsongalis GJ, Kraft CS and **Caliendo AM**. Evaluation of a next-generation sequencing metagenomics assay to detect and quantify DNA viruses in plasma from transplant recipients. *Journal of Molecular Diagnostics*. 2021. doi.org/10.1016/j.jmoldx.2021.02.008.

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178. Hayden RT, Su Y, Boonyaratanakornkit J, Cook L, Gu Z, Jerome K, Pinsky BA, Sam SS, Tan SK, Zhu H, Tang L and **Caliendo AM**. Matrix Matters: Assessment of Commutability among BK Virus Assays and Standards. *J Clin Micro*. 2022 Sep 21;60(9):e0055522. doi: 10.1128/jcm.00555-22. Epub 2022 Aug 23. PMID: 35997500; PMCID: PMC9491175.
179. Kalichman SC, Eaton LA, Kalichman MO, Sam SS and **Caliendo AM**. Pre-pandemic predictors of Medication adherence and HIV viral load during the first year of COVID-19. *JAIDS*. 2023; 92:242-249. DOI: 10.1097/QAI.0000000000003129.
180. Sam SS, Rogers R, Ingersoll J, Kraft CS, and **Caliendo AM**. Evaluation of performance characteristics of the Aptima CMV Quant assay for the detection and quantification of CMV DNA in plasma samples. *J Clin Micro*. 2023 Feb 22;61(2):e0169922. doi: 10.1128/jcm.01699-22. Epub 2023 Jan 31. PMID: 36719219; PMCID: PMC9945493.

Other Peer-Reviewed Publications

Review articles

1. **Caliendo AM**, Hirsch MS. Combination therapy for the treatment of HIV-1. *Clinical Infectious Diseases*. 1994; 18:516-24.
2. **Caliendo AM**. Laboratory methods for quantitating HIV RNA. *AIDS Clinical Care*. 1995; 7:89-96.
3. **Caliendo AM**. Enhanced diagnosis of *Pneumocystis carinii*: Promises and Problems. *Clinical Microbiology Newsletter*. 1996; 18:113116.
4. **Caliendo AM**. Methods, Interpretation and Applications of HIV-1 Viral Load Measurements. *Clinical Microbiology Newsletter*. 1997; 19:1-5.
5. **Caliendo AM**. Diagnosis of *Chlamydia trachomatis* infection using amplification methods: Can we afford it? *Clinical Microbiology Newsletter*. 1998; 20:75-78.
6. **Caliendo AM**. Molecular Diagnostics in Viral Infections. *Current Opinion in Organ Transplantation*. 2000; 5:168-175.
7. Kelley VA and **Caliendo AM**. Successful Testing Protocols in Virology. *Clinical Chemistry*. 2001; 47:1559-1562.
8. Hanna, GJ and **Caliendo AM**. Testing for Human Immunodeficiency Virus Type 1 Drug Resistance. *Molecular Diagnosis*. 2001; 6:253-263.

Editorials/Other

1. **Caliendo AM** and Lake JR. Is it risky to use kidneys from CDC-increased risk donors? (Editorial). *American Journal of Transplantation*. 2007;7:1437-1438.
2. Sobel ME, Bagg A, **Caliendo AM**, Ladanyi M, Zehnbauser B. The evolution of molecular genetic pathology: advancing 20th-century diagnostic methods into potent tools for the new millennium. *J. Mol Diagnostics* 2008;10(6):480-3.
3. Cu-Uvin S, **Caliendo AM**. Genital tract HIV-1 RNA shedding among women with below detectable plasma viral load. (Editorial) *AIDS*. 2011 Mar 27;25(6):880-1.
4. **Caliendo AM**. The long road towards standardization of viral load testing for cytomegalovirus. (Editorial) *Clinical Infectious Diseases*. 2013;56:374-5.
5. **Caliendo AM**. Rapid blood culture identification: The value of a randomized trial. (Editorial). *Clinical Infectious Diseases* 2015 Oct 1;61(7):1081-3. doi: 10.1093/cid/civ450. Epub 2015 Jul 20.

Books and Book Chapters

Book Chapters

1. Merrick WC, Abramson RD, **Caliendo AM**, Grifo JA, Denver TE. 1986. Binding of Initiation Factors to mRNA. Cold Spring Harbor (Current Communications). Ed. Mathews M. 199-24.
2. Merrick WC, Abramson RD, Anthony DD, Jr., Denver TE, and **Caliendo AM**. 1987. Involvement of Nucleotides in Protein Synthesis Initiation. In: Translational Regulation of Gene Expression. Ed. Ilan J. Plenum Pub. Corp.
3. Nolte FS and **Caliendo AM**. Molecular Detection and Identification of Microorganisms. In: Manual of Clinical Microbiology. 2003. 8th Edition. Eds. PR Murray, EJ Baron, JH Jorgensen, MA Pfaller, RH Tenover, ASM Press. pp. 234-256.
4. **Caliendo, AM** and Yen-Lieberman, B. Viral Genotyping. In: Molecular Microbiology. Diagnostic Principles and Practice. 2004. 2nd Edition. Eds. DH Persing, FC Tenover, J Versalovic, Y-W Tang, ER Unger, DA Relman, TJ White. ASM Press. pp. 489-500
5. Hill, CE and **Caliendo, AM**. Viral Load Testing. In: Molecular Microbiology. Diagnostic Principles and Practice. 2004. 2nd Edition. Eds. DH Persing, FC Tenover, J Versalovic, Y-W Tang, ER Unger, DA Relman, TJ White. ASM Press. pp. 478-488.
6. Ferreira-Gonzalez, A and **Caliendo, AM**. Molecular Methods in Diagnosis and Monitoring of Infectious Diseases. In: Tietz Textbook of Clinical Chemistry and Molecular Diagnostics (4th Ed). Eds. Burtis, Ashwood, and Bruns. Elsevier Saunders. 2005.
7. **Caliendo, AM** and Nell S. Lurain. Cytomegalovirus. In: Molecular Diagnostics for the Clinical Laboratorian 2nd Edition. 2006. Eds. WB Coleman and GJ Tsongalis. Humana Press. pp. 473-482.
8. **Caliendo AM** and Hill CE, Human Immunodeficiency Virus Type 1. In: Molecular Diagnostics for the Clinical Laboratorian 2nd Edition. 2006. Eds. WB Coleman and GJ Tsongalis. Humana Press. pp. 453-459.

9. **Caliendo, AM.** Human Immunodeficiency Virus Type 1. In: Molecular Pathology and Clinical Practice. Ed. Leonard, Springer, 2007, pp.399-410.
10. Ferreira-Gonzalez, A and **Caliendo, AM.** Viral Infections in Transplant Patients. In: Molecular Pathology and Clinical Practice. Ed. Leonard, Springer, 2007, pp.425-435.
11. Ferreira-Gonzalez A, Versalovic J, Habeebu S, and **Caliendo AM.** Molecular Methods in Diagnosis and Monitoring of Infectious Diseases. In: Fundamentals of Molecular Diagnostics. Saunders Elsevier, DE Bruns, ER Ashwood, CA Burtis (eds). 2007, pp. 171-196.
12. Nolte FS and **Caliendo AM.** Molecular Detection and Identification of Microorganisms. In: Manual of Clinical Microbiology. 2007. 9th Edition. Eds. PR Murray, EJ Baron, JH Jorgensen, MA Pfaller, ML Landry, ASM Press. pp. 218-244.
13. Landry ML, **Caliendo AM,** Tang Y-W, and Valsamakis A. Algorithms for Detection and Identification of Viruses. In: Manual of Clinical Microbiology. 2007. 9th Edition. Eds. PR Murray, EJ Baron, JH Jorgensen, MA Pfaller, ML Landry, ASM Press. pp. 1304-1307.
14. Kraft C and **Caliendo AM.** Molecular Detection and Characterization of HIV. Molecular Microbiology: Diagnostic Principles and Practice. 2nd Edition. Eds. DH Persing, FC Tenover, R Hayden, F Nolte, Y-W Tang, A Van Belkum. ASM Press. 2010; pp.541-556.
15. Nolte FS and **Caliendo AM.** Molecular Detection and Identification of Microorganisms. In: Manual of Clinical Microbiology. 10th Edition. ASM Press. 2011.
16. Griffith BP, Campbell S, **Caliendo AM.** Human Immunodeficiency Viruses. In: Manual of Clinical Microbiology. 10th Edition. ASM Press. 2011.
17. Bossler A and **Caliendo, AM.** Molecular Methods in Diagnosis and Monitoring of Infectious Diseases. In: Tietz Textbook of Clinical Chemistry and Molecular Diagnostics (5th Ed). Saunders. 2013.
18. Ramjit RT and **Caliendo AM.** Human Immunodeficiency Virus. In: Diagnostic Molecular Pathology in Practice: A Case-Based Approach. Ed. Iris Schrijver. Springer. 2011; pp253-260.
19. Ramjit RT and **Caliendo AM.** *Chlamydia trachomatis*. In: Diagnostic Molecular Pathology in Practice: A Case-Based Approach. Ed. Iris Schrijver. Springer. 2011; pp277-282.
20. Kraft C and **Caliendo, AM.** Human Immunodeficiency Virus Type 1. In: Molecular Pathology and Clinical Practice. 2nd Edition, Ed. Leonard, Springer, 2016.
21. Armstrong WS, Guarner J, Kraft CS, **Caliendo AM.** Human Immunodeficiency Virus. In: Diagnostic Microbiology of the Immunocompromised Host. ASM Press, 2016.
22. **Caliendo AM** and Kraft CS. Molecular Detection and Characterization of Human Immunodeficiency Virus Type 1 In: Molecular Microbiology: Diagnostic Principles and Practice, 3rd Edition, Ed Persing DH et al. 2016.

Books Edited

1. **Caliendo, AM.** Section Editor, Infectious Diseases Section. In: Molecular Pathology and Clinical Practice. Ed. Leonard, Springer, 2007.
2. **Caliendo, AM.** Section Editor, Virology Section. In: Manual of Clinical Microbiology, 9th Edition. ASM Press. 2007.
3. **Caliendo, AM.** Section Editor, Virology Section. In: Manual of Clinical Microbiology, 10th Edition. ASM Press. 2011.
4. **Caliendo, AM.** Section Editor, Virology Section. In: Manual of Clinical Microbiology, 11th Edition. ASM Press. 2015
5. **Caliendo, AM.** Section Editor, Infectious Diseases Section. In: Molecular Pathology and Clinical Practice. Second Ed. Leonard, Springer, 2016.
6. **Caliendo, AM.** Section Editor, Virology Section. In: Manual of Clinical Microbiology, 12th Edition. ASM Press. 2018

Other Non-Peer Reviewed Publications

Laboratory Guidelines

1. National Committee for Clinical Laboratory Standards. Antiviral Susceptibility Testing; Approved Standard. NCCLS Document M33-A. 2000.
2. National Committee for Clinical Laboratory Standards. Quantitative Molecular Methods for Infectious Diseases; Approved Guideline. NCCLS document MM6-A. 2003.
3. Clinical and Laboratory Standards Institute (formerly NCCLS). Genotyping for Infectious Disease: Identification and Characterization; Proposed Guideline MM10-P. 2005.
4. Clinical and Laboratory Standards Institute. Quantitative Molecular Methods for Infectious Diseases; Approved Guideline. CLSI Document MM6A-2. 2010

UpToDate Contributions: UpToDate is a comprehensive clinical information resource.

1. **Caliendo, AM.** PCR testing for the diagnosis of herpes simplex virus encephalitis. In: UpToDate, Waltham, MA, 2007, with annual updates
2. **Caliendo, AM.** Techniques and Interpretation of HIV-1 RNA quantitation. In: UpToDate, Waltham, MA, 2007, with annual updates.
3. **Caliendo, AM.** Viral load testing for cytomegalovirus in solid organ transplant recipients. In: UpToDate, Rose, Waltham, MA, 2007, with annual updates. Retired in 2013.
4. **Caliendo, AM.** Overview of diagnostic tests for cytomegalovirus infection. In: UpToDate, Waltham, MA, 2013, with annual updates.
5. **Caliendo, AM.** Approach to the diagnosis of cytomegalovirus infection. In: UpToDate, Waltham, MA, 2013, with annual updates.
6. **Caliendo AM** and Hanson KE. Coronavirus disease 2019 (COVID-19): Diagnosis. In: UpToDate, Waltham, MA, 2020, with annual updates.

INVITED PRESENTATIONS

Organization of National or International Conferences

- 1999 Moderator, Infectious Diseases Workshop – Protocols and Internal Controls: Discussion of Survey. 5th Annual Meeting of Association for Molecular Pathology, St. Louis, MO.
- 2000 Moderator, Workshop: Review and Discussion of NCCLS Guidelines for Methods for Quantitative Testing for Infectious Diseases. 6th Annual Association for Molecular Pathology Meeting, Denver, CO.
- 2000 Member, Annual Meeting Program Committee, Association for Molecular Pathology
- 2000 Moderator, Symposium entitled: Clinically Relevant Molecular Testing in Infectious Diseases. 39th Annual Meeting of the Infectious Diseases Society of America, San Francisco, CA.
- 2003 Moderator, Symposium entitled: The Role of New Diagnostic Tests in Clinical Practice, 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, IL.
- 2004 Moderator, Symposium entitled: Update on Viral Diagnostics: Traditional to “Real Time,” 104th Annual Meeting for the American Association for Microbiology, New Orleans, LA.
- 2008 Moderator, Symposium entitled: What’s New in Infectious Diseases Diagnostics? Society for Healthcare Epidemiology of America Annual Scientific Meeting, Orlando, FL
- 2008 Convener, pre-meeting workshop entitled: Optimizing Screening of Organ Donors for Transplantation: New Technologies and Future Directions, 48th Annual Interscience Conference on Antimicrobial Agents and Chemotherapy and the Infectious Diseases Society of America 46th Annual meeting, Washington, DC
- 2009 Moderator, Symposium entitled: Nucleic Acid Testing (NAT) for Screening Organ Donors. 47th Annual meeting of the Infectious Diseases Society of America, Philadelphia, PA.
- 2009 - 2013 Program Committee Member, Annual Meeting Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC)
- 2012 Organizing Committee, Scientific Working Group on the Standardization of Genome Amplification Techniques, 24th Blood Virology and 4th Clinical Diagnostics Meeting, Ljubljana, Slovenia May 2013.
- 2014 Organizing Committee, Scientific Working Group on the Standardization of Genome Amplification Techniques, 25th Blood Virology and 5th Clinical Diagnostics Meeting, Graz, Austria May 2014.
- 2015 Organizing Committee, Scientific Working Group on the Standardization of Genome Amplification Techniques, 20th Anniversary Workshop – “Past Successes and Future Challenges, London, United Kingdom June 2015.

- 2015 Moderator, Symposium entitled: Point Counterpoint: FDA Regulation of LDTs – Laboratory and Industry Perspective, 31st Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Daytona Beach, FL.
- 2016 Moderator, Symposium entitled: “What does and what does not need an IQCP in the microbiology laboratory”. 32nd Clinical Virology Symposium, Daytona Beach, FA.

Local/Regional

- 1994 Invited Speaker; Lecture, "Emerging Problems in Clinical Virology", in a conference entitled Infectious Diseases: New Challenges, New Strategies. Jersey Shore Medical Center, Neptune, NJ.
- 1995 Invited Speaker; Lecture, "Diagnostic Virology", Northeast Association for Clinical Microbiology and Infectious Diseases, Portland, ME.
- 1995 Invited Speaker; Lecture, "Diagnostic Virology", and "Clinical Virology Cases. 13th Annual Northeast Regional Joint Fall Conference, Maine Society for Clinical Laboratory Science, Portland, ME.
- 1997 Invited Speaker; Lecture, "HIV RNA Quantitation" in a lecture series entitled Molecular Diagnostic and Prognostic Markers of Disease. New England Society of Pathologists, Boston, MA.
- 1997 Invited Speaker; Lecture, "Clinical Virology - Where Have We Been and Where Are We Going" in the seventh Clinical Microbiology Update. Western Pennsylvania Society for Clinical Microbiology Mars, PA.
- 1997 Invited Speaker; Lecture, "Diagnosis of HSV, HIV and CMV Infections in Neonates", in a symposium entitled Maternal Child Health Care. Northeast Association for Clinical Microbiology and Infectious Disease, Cromwell, CT.
- 1998 Invited Speaker; Lecture, "Diagnosis of CMV Disease". University of Massachusetts Medical Center, Worcester, MA.
- 1998 Invited Speaker; Lecture, "Redefining *Mycoplasma pneumoniae* for the Clinician: Adventures with a PCR-Based Diagnostic Test" in a symposium entitled The Role of *Mycoplasma* in Human Disease: Looking Toward the Next Century. Massachusetts General Hospital, Boston, MA.
- 1998 Invited Speaker, Lecture, "Molecular Diagnostics for Infectious Diseases". 16th Annual Northeast Regional Joint Fall Conference, Maine and New Hampshire State Societies of American Medical Technologists, Portland, ME.
- 1998 Invited Speaker; Lecture, "Diagnosis of *Chlamydial* and *Gonococcal* Infections Using Gene Amplification Technologies", in the 13th Annual Symposium on Contemporary Topics in Clinical Microbiology and Infectious Disease. SUNY Health Science Center at Syracuse. Syracuse, NY.

- 1998 Invited Speaker; Lecture, "Molecular Diagnostic Testing in the Managed Care Era". Annual Fall Meeting, Northern California American Society for Microbiology, Sacramento, CA.
- 1999 Invited Speaker; Lecture, "Molecular Diagnosis of Atypical Pneumonia", 8th Annual Seminar on Molecular Pathology, William Beaumont Hospital, Royal Oak, Michigan.
- 1999 Invited Speaker; Lecture, "Update on HIV and HCV Viral Load", American Association for Clinical Chemistry, Northeast Section, Boston, MA.
- 1999 Invited Speaker, Lecture, "Molecular Diagnostics for Infectious Diseases", 18th Annual Meeting of the Southwestern Association of Clinical Microbiology, Oklahoma City, OK.
- 1999 Invited Speaker, Lecture, "Molecular Techniques for Future Clinical Microbiology", 16th Annual Meeting, The Southern Association for Clinical Microbiology, Memphis, TN.
- 1999 Invited Speaker, Lecture, "HIV Genotyping" in a symposium entitled: Viral Genotyping: Improving Viral Disease Diagnosis and Therapy, American Association for Clinical Chemistry, Atlanta, GA.
- 1999 Invited Speaker, Lecture, "CMV Viral Load" in a workshop entitled: Viral Loads. Workshop preceding the 39th Interscience Conference on Antimicrobial Agents and Chemotherapy, San Francisco, CA.
- 2000 Invited ASM Foundation Speaker, Lecture, "Molecular Diagnostics in Infectious Diseases". Clinical Microbiology Review and Update, Illinois Society for Microbiology. Des Plaines, IL.
- 2000 Invited ASM Foundation Speaker, Lecture, "Molecular Diagnostics in Infectious Diseases". Joint Annual Meeting, The American Society for Microbiology, Missouri Branch, Kansas, MO.
- 2000 Invited Speaker, Lecture, "Recent Advances in Molecular Diagnostics". American Association for Clinical Chemistry, Southeast Section, Spring Meeting, Gatlinburg, TN.
- 2000 Invited Speaker, Lecture, "Update on Hepatitis C Virus" South Central Association for Clinical Microbiology Spring Meeting, Louisville, KY.
- 2000 Invited Speaker, Lecture, "CMV Viral Load and Resistance Testing" in a workshop entitled Viral Loads. Workshop preceding the 40th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Toronto, ON.
- 2000 Lecturer, "Overview of Molecular Diagnostics for Infectious Diseases" Emory Division of Infectious Diseases Seminar. Emory University School of Medicine, Atlanta, GA.
- 2001 Invited Speaker, Lecture, "Molecular Diagnostics in Transplantation". Minnesota Interlaboratory Microbiology Association, Minneapolis, MN.

- 2002 Invited Speaker, Lecture, “Laboratory Testing Used in the Diagnosis and Management of HIV-1 Infection”, American Society for Microbiology, Audio Conference Series.
- 2000 Invited Speaker, Lecture, “HIV and Molecular Testing”, 50th Annual Pasteur Award luncheon and Fall Meeting, Illinois Society for Microbiology, Chicago, IL.
- 2001 Invited Speaker, Lecture, “Case Studies in Clinical Microbiology”, South Eastern Association for Clinical Microbiology, Atlanta, GA.
- 2002 Invited Speaker, Lecture, “Update on Molecular Testing for the Diagnosis of Genital Tract Infections”, Brown University Center for AIDS Research, Providence, RI.
- 2003 Invited Panelist, “Influenza Virus”. Second Annual Emerging Infectious Pathogens Meeting, Atlanta, GA
- 2005 Invited Speaker, “Finances, Fellowships, and the Future of Molecular Diagnostics”, Southeastern Association of Pathology Chairs, Puerto Vallarta, Mexico.
- 2004 Invited Speaker, “Molecular Diagnostics, Redefining the Practice of Infectious Diseases”, Building a Molecular Diagnostics Laboratory, Washington G2 Reports, Miami, FL.
- 2008 Invited Speaker, “Molecular Diagnostics, Redefining the Practice of Infectious Diseases”, 15th Annual First Coast Infectious Diseases/Clinical Microbiology Symposium, Jacksonville, FL.
- 2009 Invited Speaker, “Diagnostics for Respiratory Viruses: What’s Available and What’s Practical”, 6th Annual Georgia Emerging Infections Program Meeting, Atlanta, GA.
- 2010 Invited Speaker, “Molecular Diagnostics for Respiratory Viruses”, Molecular Pathology Essentials: Principles and Practice. Sponsored by the American Association of Clinical Chemists and the Association for Molecular Pathology. Atlanta, GA.
- 2013 Invited Speaker, “Molecular Diagnostics: Is the Future Now?” Annual Spring Symposium, Infectious Diseases Society of New Jersey, Iselin, NJ.
- 2013 Invited Speaker, “CMV, Bridging the Laboratory and Clinical Practice” in a Symposium entitled Updates in Molecular Diagnostics and Genomic Medicine” Newark, NJ.
- 2014 Invites Speaker, “Molecular Diagnostics for Infectious Diseases: Promises Realized and Lessons Learned”, Providence VA Medical Center Update in Internal Medicine Series. Providence, RI.
- 2015 Invited Speaker, “Rational Use of Molecular Diagnostics for Infectious Diseases”. 2015 Annual Clinical Symposium, Infectious Diseases Society of New Jersey, Iselin, NJ.

- 2016 Invited Speaker, “Rational Use of Molecular Diagnostics for Infectious Diseases”. 23rd Annual E.G. Scott Microbiology Symposium, Christiana Hospital, Newark, DE.
- 2017 Invited Speaker, “Rational use of Molecular Diagnostics for Infectious Diseases” and “The Future of Molecular Diagnostics”. 27th Infectious Diseases Society of Oregon Annual Meeting, Salem, Oregon, November 2, 2017.
- 2017 Invited Speaker, “Interpreting Results of New Molecular Tests”. 30th Annual Meeting, Infectious Diseases in Children, New York, New York, November 18-19, 2017.

Continuing Medical Education

- 1995 Invited Speaker; Lecture, “Pulmonary Manifestations of AIDS” in a conference entitled: AIDS: A Treatment Update for the Primary Care Provider. The North Shore Medical Center, Salem Hospital, Salem, MA.
- 1996 Invited Speaker; Infectious Diseases of Adults Course, Infectious Disease Unit and Harvard Medical School, Boston, MA. “Molecular Diagnostics for Infectious Diseases”.
- 1996 Invited Speaker, AIDS Medicine: An Intensive Course. The Partners AIDS Research Center and Harvard Medical, Boston, MA. “Determination of Viral Load and Use in Clinical Practice”.
- 1997 Invited Speaker; Infectious Diseases of Adults Course, Infectious Disease Unit and Harvard Medical School, Lecturer, Boston, MA. “Molecular Diagnostics for Infectious Diseases”.
- 1997 Invited Speaker, AIDS Medicine: An Intensive Course. The Partners AIDS Research Center and Harvard Medical, Boston, MA. “Determination of Viral Load: Technical Aspects”.
- 1998 Lecturer, Infectious Diseases of Adults Course, Infectious Disease Unit and Harvard Medical School, Boston, MA. “Molecular Diagnostics for Infectious Diseases”.
- 1998 Lecturer, AIDS Medicine: An Intensive Course. The Partners AIDS Research Center and Harvard Medical School, Boston, MA. “Molecular Diagnostics in HIV: Technical Aspects”.
- 1999 Lecturer, Infectious Diseases of Adults Course, Infectious Disease Unit and Harvard Medical School, Boston, MA. “Molecular Diagnostics for Infectious Diseases”.
- 1999 Invited Speaker, Lecture, “Molecular Diagnostics in HIV: Technical Aspects” in a course entitled AIDS Medicine: An Intensive Course. The Partners AIDS Research Center and Harvard Medical School, Boston, MA.
- 2000 Invited Speaker, Lecture, “Molecular Diagnostics in HIV: Technical Aspects” in a course entitled AIDS Medicine: An Intensive Course. The Partners AIDS Research Center and Harvard Medical School, Boston, MA.

- 2000 Invited Speaker, Lecture, “Molecular Diagnostics” in a course entitled: Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2000 Invited Speaker, Lecture, “Assays for Detection of CMV” and “Molecular Methods for the Diagnosis of Atypical Pneumonia”, 18th Annual Summer Update in Clinical Immunology, Microbiology and Infectious Diseases, The University of Utah School of Medicine, Jackson Hole, WY.
- 2001 Invited Speaker, Lecture, “Molecular Diagnostics” in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2001 Invited Speaker, Lecture, “Molecular Diagnostics in HIV: Technical Aspects” in a course entitled AIDS Medicine: An Intensive Course. The Partners AIDS Research Center and Harvard Medical School, Boston, MA.
- 2002 Invited Speaker, Lecture, “Molecular Diagnostics in HIV: Technical Aspects” in a course entitled AIDS Medicine: An Intensive Course. The Partners AIDS Research Center and Harvard Medical School, Boston, MA.
- 2002 Invited Speaker, Lecture, “Clinical Cases in Microbiology and Molecular Diagnostics” in a course entitled Diagnostic Problems in Anatomic and Clinical Pathology, Emory University School of Medicine, Department of Pathology and Laboratory Medicine, Atlanta, GA.
- 2002 Invited Speaker, Lecture, “Molecular Diagnostics” in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2002 Invited Speaker, Lecture, “Effective Use of the Laboratory in Infectious Diseases” in a course entitled Emory Updates in Primary Care. Emory University School of Medicine and Emory HealthCare, Atlanta, GA.
- 2003 Invited Speaker, Lecture, “Molecular Diagnostics” in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2003 Invited Speaker, Lecture, “Clinical Cases in Microbiology and Molecular Diagnostics” in a course entitled Diagnostic Problems in Anatomic and Clinical Pathology, Emory University School of Medicine, Department of Pathology and Laboratory Medicine, Atlanta, GA.
- 2004 Invited Speaker, Lecture, “Molecular Diagnostics” in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2004 Invited Speaker, Lecture, “Update on HCV Diagnostics” in an audioconference. American Association for Microbiology, Atlanta, GA.
- 2005 Invited Speaker, Lecture, “Molecular Diagnostics” in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.

- 2005 Invited Speaker, Lecture, “Clinically relevant, cost-effective molecular testing for Infectious Disease” 12th Annual E. G. Scott Microbiology Symposium, Newark, Delaware.
- 2005 Invited Speaker, Lecture, “Molecular Testing: Impact on Clinical Diagnosis of Infectious Diseases” in a course entitled The Doctor Goes Back to the Lab: Bringing Basic Science to the Bedside, Emory University School of Medicine.
- 2005 Invited Speaker, Lecture, “Update on Influenza-Clinical and Laboratory Perspective” in the Emory Medical Laboratory 2006 Educational Symposium, Atlanta, GA.
- 2006 Invited Speaker, Lecture, “Molecular Diagnostics” in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2007 Invited Speaker, Lecture, “Molecular Diagnostics” in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2007 Invited Speaker, Lecture, “Clinical Cases in Microbiology and Molecular Diagnostics” in a course entitled Diagnostic Problems in Anatomic and Clinical Pathology, Emory University School of Medicine, Department of Pathology and Laboratory Medicine, Atlanta, GA.
- 2008 Invited Speaker, Lecture, “Molecular Diagnostics” in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2008 Invited Speaker, Lecture, “Clinical Microbiology 2008” in the Vincent T. Andriole ID Update Course. 48th Annual Interscience Conference on Antimicrobial Agents and Chemotherapy and the Infectious Diseases Society of America 46th Annual meeting, Washington, DC.
- 2008 Invited Speaker, Lecture, “Diagnostics for Respiratory Viruses: What’s Available and What’s Practical?” Department of Pathology, Gwinnett Hospital System.
- 2009 Invited Speaker, Lecture, “Molecular Diagnostics” in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2010 Invited Speaker, Lecture, “Molecular Diagnostics” in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2011 Invited Speaker, Lecture, “Molecular Diagnostics” in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2012 Invited Speaker, Lecture, “Molecular Diagnostics” in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.

- 2013 Invited Speaker, Lecture, “Molecular Diagnostics” in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2014 Invited Speaker, Lecture, “Molecular Diagnostics” in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2015 Invited Speaker, Lecture, “Molecular Diagnostics” in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2016 Invited Speaker, Lecture, “Molecular Diagnostics” in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2017 Invited Speaker, Lecture, “Molecular Diagnostics” in a course entitled Infectious Diseases of Adults. Infectious Diseases Division, Massachusetts General Hospital and Harvard Medical School, Boston, MA.
- 2019 Invited Speaker, Lecture, “Updates in Testing for infectious Diseases”, Rhode Island annual ACP meeting, Providence, RI.
- 2020 Invited Speaker, Lecture, COVID-19 Testing Update, CDC/IDSA COVID-19 Clinician Call. August, 22, 2020.

Local Grand Rounds

- 1994 Invited Speaker; Lecture, "Diagnostic Virology", Medical Grand Rounds, North Shore Medical Center, Salem Hospital, Salem, MA.
- 1996 Invited Speaker; Lecture, "Molecular Diagnostics", Pathology Grand Rounds, Massachusetts General Hospital, Boston, MA.
- 1999 Invited Speaker, Lecture, "Clinical Virology", Medical Grand Rounds, Melrose Wakefield Hospital, Melrose, MA.
- 1999 Invited Speaker, Lecture, "Molecular Diagnostics for Infectious Diseases", Medical Grand Rounds, Whidden Memorial Hospital, Everett, MA.
- 1999 Invited Speaker, Lecture, “Molecular Testing for the Diagnosis of CMV Infections in Transplant Recipients”, Pediatric Infectious Diseases Grand Rounds, Emory University School of Medicine, Atlanta, GA.
- 2001 Invited Speaker, Lecture, “Molecular Testing for Infectious Diseases: What is Clinically Relevant?”, Medical Grand Rounds, Emory University School of Medicine, Atlanta, GA.
- 2002 Invited Speaker, Lecture, “Molecular Testing for CMV Disease in Transplant Recipients”, Medical Genetics Grand Rounds, Emory University School of Medicine, Atlanta, GA.

- 2002 Invited Speaker, Lecture, “Molecular Diagnostics for Infectious Diseases”, Grand Rounds, Emory Crawford Long Hospital, Atlanta, GA.
- 2003 Invited Speaker, Lecture, “Clinical Utility of Molecular Testing for CMV”, Pediatric Infectious Diseases, Egleston/Children’s Healthcare of Atlanta, Atlanta, GA.
- 2007 Invited Speaker, Lecture, “Controversies in Community Acquired Pneumonia”, Medicine Grand Rounds, Emory University School of Medicine, Atlanta, GA.
- 2019 Invited Speaker, Lecture, “Rational Use of Molecular Diagnostics for Infectious Diseases”, Department of Medicine Grand Rounds, Alpert Medical School of Brown University, Providence, RI.

Invited Visiting Professorships/Grand Rounds

- 1997 Invited Speaker; Lecture, "Molecular Diagnostics for Infectious Diseases," Medical Grand Rounds, the University of Tennessee, Chattanooga, TN.
- 2001 Visiting Professor, Division of Molecular Diagnostics, Department of Pathology, University of Pittsburgh Medical Center, Pittsburgh, PA
- 2002 Grand Rounds Speaker; Lecture, “Molecular Testing Used in the Diagnostics and Management of HIV Infection,” Hartford Hospital, Department of Pathology, Hartford, CT.
- 2002 Grand Rounds Speaker; Lecture, “Clinical Utility of Molecular Testing for CMV in Solid Organ Transplant Recipients,” Johns Hopkins University School of Medicine, Department of Pathology, Baltimore, MD.
- 2003 Grand Rounds Speaker; Lecture, “HIV-1 Transmission in Women: Can We Impact Transmission?”, Department of Obstetrics and Gynecology, Magee-Women’s Hospital, University of Pittsburgh Medical Center, Pittsburgh, PA.
- 2003 Visiting Professor in Clinical Pathology; Lecture, “HIV-1 Dynamics in the Female Genital Tract: Impact on HIV-1 Transmission,” Vanderbilt University Medical Center, Nashville, TN.
- 2003 Grand Rounds Speaker; Lecture, “Role of Molecular Diagnostics in Clinical Infectious Diseases,” Harvard Medical School Combined Hospital Grand Rounds, Boston, MA.
- 2004 Grand Rounds Speaker; Lecture, “Managing CMV in Transplantation. Is there a Role for Molecular Testing?”, Dartmouth Medical School, Lebanon, NH
- 2008 Visiting Professor, Clinical Pathology/Medical Microbiology, Lecture, “CMV Diagnostics, What’s Behind the Move to Molecular?” Duke University Medical Center
- 2008 KeyNote Speaker, Pathology Research Day, Lecture: “CMV Viral Load: Bridging the Gap between the Laboratory and Clinical Care”, Medical University of South Carolina, Charleston, SC.

- 2008 Grand Rounds Speaker, Pathology and Laboratory Medicine, Lecture: "CMV Viral Load: Bridging the Gap between the Laboratory and Clinical Care". Indiana University School of Medicine.
- 2009 Grand Rounds Speaker, Pathology and Laboratory Medicine, Lecture: "CMV Viral Load: Bridging the Gap between the Laboratory and Clinical Care". University of Iowa Carver College of Medicine.
- 2013 Visiting Speaker, Molecular Virology: Is the Future Here?, Infection and Immunity Research Club, Mayo Clinic, Rochester, MN.
- 2015 Visiting Professor, Albert Einstein College of Medicine and Montefiore Hospital, Medicine Grand Rounds: "Rational Use of Molecular Diagnostics for Infectious Diseases" and Infectious Diseases Grand Rounds "Use of Viral Load Tests in Managing Transplant Infections".
- 2016 Robert C. Moellering, Jr Visiting Professorship, Department of Medicine Grand Rounds and "Use of Viral Load Tests in Managing Transplant Infections: What's behind that viral load value?". Beth Israel Medical Center, Boston, MA. January 19-20, 2016.
- 2016 Grand Rounds Speaker, "Rational use of Molecular Diagnostics for Infectious Diseases", Department of Pathology, University of Utah, Salt Lake City, UT. April 21, 2016.
- 2017 Grand rounds Speaker, "Rational use of Molecular Diagnostics for Infectious Diseases", Department of Medicine, Providence Portland Medical Center, Portland, Oregon. November 1, 2017.
- 2018 Visiting Professor, "Rational Use of Molecular Diagnostics for Infectious Diseases"; "Use of Molecular Diagnostics in Transplant Infections: What's Behind the Viral Load Value? Division of Infectious Diseases, University of Pittsburgh School of Medicine/University of Pittsburgh Medical Center, Pittsburgh, PA, April 5-6, 2018
- 2018 Visiting Professor/Trainee Research Day, "Rational Use of Molecular Diagnostics for Infectious Diseases", Department of Pathology Grand Rounds, Washington University, School of Medicine, St. Louis, April 29-May 1, 2018.
- 2019 Keynote Speaker, "Rational Use of Molecular Diagnostics for Infectious Diseases", Fred Hutch Infectious Disease Sciences Program and University of Washington Virology Division Joint Symposium, University of Washington School of Medicine, Seattle, WA, January 17, 2019.
- 2019 Fellows Visiting Professor, "Rational Use of Molecular Diagnostics for Infectious Diseases" Division of Infectious Diseases, Emory University School of Medicine, Atlanta, GA, March 21, 2019.

National or International Conferences:

- 1996 Invited Speaker; Lecture, "Difficult to Diagnose Pneumonias" in a symposium entitled: Enhanced Diagnosis and Detection of Resistance through Nonculture Methods. Interscience Conference on Antimicrobial Agents and Chemotherapy (ICCAC), New Orleans, LA.

- 1996 Invited Speaker; Lecture, "Molecular Diagnostics in HIV Infection" in a workshop entitled Molecular Diagnostics for Infectious Diseases. Association for Molecular Pathology, Baltimore, MD.
- 1997 Invited Speaker; Lecture, "Impact of Managed Health Care on Molecular Diagnostics" in the Annual Molecular Virology Workshop. Pan American Society for Clinical Virology, Clearwater Beach, FL.
- 1997 Invited Speaker; Lecture, "Molecular Methods for the Diagnosis of Atypical Pneumonia" in a symposium entitled Diagnosing a Current Infection: Role of Serologic and Molecular Techniques. 97th General Meeting, American Society for Microbiology Miami Beach, FL.
- 1997 Invited Speaker, Lecture, "Tests of Cure", in a symposium entitled HIV - Beyond Viral Load Testing. Association for Molecular Pathology Third Annual Meeting, San Diego, CA.
- 1998 Invited Speaker; Lecture, "Clinical Virology and Modern Health Care", in a symposium entitled Laboratory Diagnosis of Viral Infections. 14th Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Clearwater, FL.
- 1999 Invited Speaker; Lecture, "CMV- Biology, Epidemiology, Diagnostic Strategy, and Patient Management", in a program entitled Viral Testing in the Clinical Laboratory. American Association for Clinical Chemistry, Southeast Section, Atlanta, GA.
- 1999 Invited Speaker; Lecture, "How to Select a Reference Laboratory". 15th Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Clearwater, FL.
- 1999 Invited Speaker; Lecture, "Molecular Methods for Diagnosis and Management of HIV Disease", in a symposium entitled Molecular Methods in Infectious Diseases: Their Application and Interpretation. 39th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), San Francisco, CA.
- 2000 Invited Speaker; Lecture, "Will Molecular Diagnostic Testing Ever be Cost Effective: A Data Driven Analysis". 18th Annual Symposium Automated Information Management in the Clinical Laboratory. Ann Arbor, MI.
- 2000 Invited Speaker; Lecture, "Molecular Testing for Atypical Pneumonia: Buyer Beware" in a symposium entitled In-house PCR Methods – Validation and Clinical Use: Quality vs. Cost. 40th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Toronto, ON.
- 2001 Invited Speaker; Workshop: Review and Discussion of NCCLS Guidelines for Methods for Quantitative Testing for Infectious Diseases. 6th Annual Association for Molecular Pathology Meeting, Denver, CO.
- 2001 Invited Speaker; Lecture, "Successful Testing Protocols in Virology" in a symposium entitled Outcomes and Assessment, 24th Annual Arnold O. Beckman Conference, Newport Beach, CA.

- 2001 Invited Speaker; Lecture, “Use of HIV-1 Genotyping to Guide Antiretroviral Therapy” in an EduTrak entitled Transitioning Pharmacogenomics into Clinical Practice, 2001 American Association of Clinical Chemistry Annual Meeting, Chicago, IL.
- 2001 Invited Speaker; Lecture, “Update on Resistance Assays”, 3rd Symposium of VIH/AIDS, Mexican Association of Clinical Microbiology and Infectious Diseases, Mexico City, Mexico.
- 2001 Invited Speaker; Lecture, “Advances in Diagnostic Molecular Virology”, Fellow’s Day Program, 39th Annual meeting of the Infectious Diseases Society of America, San Francisco, CA.
- 2001 Invited Speaker; Lecture, “Infections in Organ Transplant Recipients” in a symposium entitled Clinically Relevant Molecular Testing in Infectious Diseases. 39th Annual Meeting of the Infectious Diseases Society of America, San Francisco, CA.
- 2002 Invited Speaker; Lecture, “Molecular Diagnostics in Transplantation” in a symposium entitled Infection, Proliferation and Malignancy. American Society of Transplantation Sixth Annual Winter Symposium, Olympic Valley, CA.
- 2002 Invited Speaker, Lecture, “Validation, verification and QA for in-house developed assays” in a symposium entitled “Open Platform”, Systems for developing molecular diagnostic assays. 102nd General Meeting of the American Society for Microbiologists, Salt Lake City, UT.
- 2002 Invited Speaker; Lecture, “Correlation of Viral Load in the Plasma and Genital Tract of HIV-Infected Women”, Infectious Diseases Plenary Session, 8th Annual Meeting, Association of Molecular Pathology, Dallas, TX.
- 2002 Invited Speaker; Lecture “Rapid Diagnostics of Respiratory Viruses”, in a symposium entitled Rapid Methods in Clinical Microbiology: Is Faster Better?, 40th Annual Meeting of the Infectious Diseases Society of America, Chicago, IL.
- 2003 Invited Speaker; Lecture “Clinical Cases in Clinical Virology”, 19th Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Clearwater, FL.
- 2003 Invited Speaker, Sunrise Session; Lecture, “Rapid Testing for Respiratory Viruses”, 103rd General Meeting of the American Society of Microbiologists, Washington, DC.
- 2003 Invited Speaker, Lecture, “New Diagnostic Tests for Respiratory Viruses” in a symposium entitled The Role of New Diagnostic Tests in Clinical Practice, 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, IL.
- 2003 Invited Speaker, Lecture, Infectious Complications of Transplantation” in a symposium entitled Transplant Complications, 29th Annual Meeting American Society for Histocompatibility and Immunogenetics, Miami Beach, FL.

- 2003 Invited Speaker, Lecture, “Reimbursement for Quantitative HCV testing” in a Special Topics Plenary Session, 9th Annual Meeting for the Association for Molecular Pathology, Orlando, FL.
- 2004 Invited Speaker, Lecture, “Clinical Applications of Molecular Testing for Infectious Diseases” in a symposium entitled Molecular Testing, 39th Annual Meeting for the Academy of Clinical Laboratory Physicians and Scientists, Denver, CO.
- 2004 Invited speaker, Lecture, “Viral Diseases in the Immunocompromised Patient” in a symposium entitled Update on Viral Diagnostics: Traditional to “Real Time”, 104th Annual Meeting for the American Association for Microbiology, New Orleans, LA.
- 2004 Invited Speaker; Lecture, “Molecular Diagnostics for Infectious Diseases,” Fellows Day Program, 42nd Annual Meeting of the Infectious Diseases Society of America, Boston, MA.
- 2004 Invited Speaker; Lecture, “Non-Molecular Methods,” in a workshop entitled Rapid Detection of Respiratory Pathogens, 10th Annual Meeting of the Association of Molecular Pathology, Los Angeles, CA.
- 2005 Invited Speaker; Lecture, “Rapid, Simple and Reliable HIV Viral Load Testing” The Ethiopian Health & Nutrition Research Institute, Addis Ababa, Ethiopia.
- 2005 Invited Speaker; Lecture, “Rapid, Simple and Reliable HIV Viral Load Testing” Armauer Hansen Research Institute, Addis Ababa, Ethiopia.
- 2005 Invited Speaker; Lecture, “Monitoring Viral Loads in Transplant Patients” Annual Molecular Virology Workshop. Pan American Society for Clinical Virology, Clearwater Beach, FL.
- 2005 Invited Speaker; Lecture, “Advances in Molecular Diagnostics of Infectious Diseases, in a Symposium entitled Molecular Medicine: Clinical Diagnostics in the Post-Genome Era, 1st International Meeting of the Clinical Ligand Assay Society, San Diego, CA.
- 2005 Invited Speaker; Lecture “Clinical Cases in Clinical Virology”, 21st Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Clearwater, FL
- 2005 Invited Speaker, “CMV Diagnostics in Transplant Recipients” Annual Meeting of the Korean Society for Clinical Microbiology, Seoul, Korea (June 05).
- 2005 Invited Speaker, “Introduction to Molecular Diagnostics and CMV in the Transplant Patient” in an EduTrak entitled: Molecular Diagnosis of Viral Infections in Transplant Patients, American Association of Clinical Chemistry and International Congress of Clinical Chemistry Annual Meeting, Orlando, FL.
- 2005 Invited Speaker, Adapting Molecular Methods for Infectious Diseases: The Global Public Health Perspective, in an EduTrak entitled: The Value of Diagnostic Tests in Public Health in Southeast Asia and Other World Regions, American Association of Clinical Chemistry and International Congress of Clinical Chemistry Annual Meeting, Orlando, FL.

- 2005 Invited Speaker, Meet the Professor: “Molecular Diagnostics”, 43rd Annual Meeting of the Infectious Diseases Society of America, San Francisco, CA
- 2005 Invited Speaker, Meet-the-Experts: “Recent Advances in Laboratory Diagnosis and Monitoring of Viral Infections in the Immunocompromised Host”, 45th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, DC.
- 2006 Invited Speaker, Sensitive Detection of Viral Target Nucleic Acid in CSF Specimens for the Laboratory Diagnosis of CNS Infections by Molecular Amplification, in a symposium entitled: Interpretation and Update of Molecular Amplification Tests for Routine Clinical Practice, 44th Annual Meeting of the Infectious Diseases Society of America, Toronto, Ontario, Canada
- 2006 Invited Speaker, New Diagnostic Tests for CAP: Are they Useful?, in a symposium entitled: Controversies in Community Acquired Pneumonia. 46th Interscience Conference on Antimicrobial Agents and Chemotherapy, San Francisco, CA.
- 2007 Invited Speaker; Lecture “Clinical Cases in Clinical Virology”, 23rd Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Clearwater, FL
- 2007 Invited Speaker, “The HIV Patient and the Virology Lab: Use for Treatment and Follow up”; “Use of the Laboratory for monitoring Immunosuppressed Patients: CMV and EBV”; and “Clinical Cases”. Second Latin American Clinical Virology Symposium, Pucon, Chile.
- 2007 Invited Speaker, “Choosing a Molecular Test for Your Laboratory” Meet the Professor Session, 45th Infectious Diseases Society of America Annual Meeting, San Diego, CA.
- 2008 Invited Speaker, “Molecular Diagnosis in Respiratory Viral Infections”, 2nd Infections in Cancer Symposium, The University of Texas MD Anderson Cancer Center, Houston, TX
- 2008 Invited Speaker; Lecture “Clinical Cases in Clinical Virology”, 24th Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Daytona, FL
- 2008 Invited Speaker; Lecture “Molecular Diagnosis of Infections Due to Respiratory Viruses” in a symposium entitled: What’s New in Infectious Diseases Diagnostics? Society for Healthcare Epidemiology of America Annual Scientific Meeting, Orlando, FL
- 2008 Invited Speaker; Lecture “Results Reporting in a Clinical Microbiology Laboratory: Making an Impact”, College of American Pathologists Annual Meeting, San Diego, CA
- 2008 Invited Speaker; Lecture “Molecular Testing at Point of Care” in a symposium entitled Point of Care Testing for Infectious Diseases, 22nd International Symposium: Critical and Point of Care Testing, Barcelona, Spain.

- 2008 Invited Speaker; Lecture “Available Platforms for Donor-Screening” in a pre-meeting workshop entitled: Optimizing Screening of Organ Donors for Transplantation: New Technologies and Future Directions, 48th Annual Interscience Conference on Antimicrobial Agents and Chemotherapy and the Infectious Diseases Society of America 46th Annual meeting, Washington, DC
- 2009 Invited Speaker; Lecture “Clinical Cases in Clinical Virology”, 25th Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Daytona, FL
- 2009 Invited Speaker: “Literature Review”, 49th Annual Interscience Conference on Antimicrobial Agents and Chemotherapy, San Francisco, CA.
- 2009 Invited Speaker: “Nucleic Acid Testing Platform Availability” in a symposium entitled: Nucleic Acid Testing (NAT) for Screening Organ Donors. 47th annual meeting of the Infectious Diseases Society of America, Philadelphia, PA.
- 2009 Invited Speaker, “A commutable cytomegalovirus calibrator is required to improve agreement of viral load values between laboratories”, presented at the SoGAT II (Standardization of Genomic Amplification Technology) Clinical Diagnostic Meeting, Istanbul, Turkey.
- 2010 Invited Speaker; Lecture “Clinical Cases in Clinical Virology”, 26th Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Daytona, FL.
- 2010 Moderator of Symposium entitled “The Role of the Clinical Laboratory in Infection Prevention and Control”, Fifth Decennial International Conference on Healthcare-Associated Infections, Atlanta, GA.
- 2010 Invited Speaker, Workshop entitled “Update on Clinical Virology: From Cell Culture to Molecular Diagnostics”, 110th General Meeting of the American Society for Microbiology, San Diego, CA.
- 2010 Invited Speaker, “Developing a Molecular Calibrator” in a symposium entitled New Tools for Diagnosing Aspergillosis. 48th Annual Meeting, Infectious Diseases Society of America, Vancouver, BC.
- 2010 Invited Speaker, “Standardization of Viral Load in Transplant Patients”. III International Clinical Virology Symposium and Advances in Vaccines, Buenos Aires, Argentina.
- 2010 Invited Speaker and Moderator, Workshops: “Technical Topics-Technical Troubles” and “Viral Load Standardization: An Oxymoron”, 16th Annual Meeting, Association of Molecular Pathology, San Jose.
- 2010 Invited Speaker, “Applicability to Molecular Testing”, American Association of Clinical Chemistry Conference on Global Harmonization: An International Forum, hosted by National Institute of Standards & Technology, Gaithersburg, MD
- 2011 Invited Speaker; Lecture “Clinical Cases in Clinical Virology”, 27th Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Daytona, FL.

- 2011 Enders Lecturer, “Molecular Diagnostics: Promises Realized and Lessons Learned”, 49th Annual Meeting, Infectious Diseases Society of America, Boston, MA.
- 2012 Invited Speaker; Lecture “Clinical Cases in Clinical Virology”, 28th Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Daytona, FL.
- 2012 Invited Speaker, “Diagnostic Testing in Transplant Infectious Diseases: International Standards and New Assays”. 2012 Annual Meeting of the American Transplant Congress, Boston, MA.
- 2012 Invited Panel Member, in an Interactive Symposium entitled: “Evidence Based Approach to the Diagnosis and Management of Infectious Syndromes Post-Transplant”. 2012 ID Week, joint meeting of the Infectious Diseases Society of America, The Society for Healthcare Epidemiology of America, HIV Medicine Association, and Pediatric Infectious Diseases Society. San Diego, CA
- 2012 Invited Speaker, “Respiratory Diagnostics: Challenges for the Developing World and Emerging Technologies” in a Symposium entitled: “Community Acquired Pneumonia: Perspectives from Around the Globe”. 2012 ID Week, joint meeting of the Infectious Diseases Society of America, The Society for Healthcare Epidemiology of America, HIV Medicine Association, and Pediatric Infectious Diseases Society. San Diego, CA
- 2013 Invited Speaker; Lecture “Clinical Cases in Clinical Virology”, 29th Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Daytona, FL.
- 2013 Invited Speaker, “Application of Quantitative Standards in Molecular Diagnostics”. 29th Annual Clinical Virology Symposium and Annual Meeting of the Pan American Society for Clinical Virology, Daytona, FL.
- 2013 Invited Speaker, “CMV Viral load values: need for a commutable calibrator”. WHO Consultation on Commutability of WHO Biological Reference Preparations for in vitro Detection of Infectious Markers. Geneva, Switzerland.
- 2013 Invited Speaker, “The Clinical Need for Standardizing Molecular Testing for Aspergillus” in a Symposium entitled: Update on Fungal Diagnostics. 2013 ID Week, joint meeting of the Infectious Diseases Society of America, The Society for Healthcare Epidemiology of America, HIV Medicine Association, and Pediatric Infectious Diseases Society. San Francisco, CA.
- 2014 Awardee Lecturer, BD Award for Research in Clinical Microbiology. Molecular Diagnostics: Looking Back, Thinking Forward. ASM2014, 114th General Meeting of the American Society for Microbiology, Boston, MA.
- 2014 Awardee lecturer, Gardner Lecture “Molecular diagnostics: Looking Back, Thinking Forward” 17th Annual Meeting of the European Society of Clinical Virology, Prague.
- 2014 Interactive Panel Member, “Laboratory Diagnosis of Infectious Diseases: Case-Based”. IDWeek 2014, Annual meeting of Infectious Diseases Society of America, Washington, DC.

- 2014 Invited Speaker, “Molecular Diagnostics for Infectious Diseases: State of the Science”, in a Plenary Session entitled: Frontiers in Infectious Diseases Diagnostics. IDWeek 2014, Annual meeting of Infectious Diseases Society of America, Washington, DC.
- 2015 Invited Speaker, “Transplant ID Diagnostics Pearls Every Clinician Should Know”, in a Pre-Meeting Workshop entitled: Exciting Updates in Transplant ID: Case Based Learning. The American Transplant Congress 2015, Philadelphia, PA.
- 2015 Invited Speaker, “Lessons learned in diagnosing viral infections” in a symposium entitled: Case Discussions of Immunocompromised Patients: Lessons Learned and Advances in Microbiology Testing. 115th General Meeting of the American Society for Microbiology, New Orleans, LA.
- 2015 Invited Speaker and Moderator, “Evaluation of secondary standards for cytomegalovirus” in a symposium entitled: Secondary Standards. 20th Workshop, Standardization of Genome Amplification Techniques (SoGAT), London, England.
- 2015 Invited Speaker, “The Changing Diagnostic Microbiology Landscape” in a symposium entitled: Culture-Independent Diagnostics and Their Impact on Public Health Functions. 2015 International Conference on Emerging Infectious Diseases, August 2015, Atlanta, GA.
- 2016 Invited Speaker, “The Role of the Microbiology Lab in an AMS Program” and “New Rapid Techniques for Multi-Drug Resistant Bacteria”. IX International Symposium on Antimicrobial Resistance, Cali, Columbia, March 2-4, 2016.
- 2016 Invited Speaker, “Syndromic Panels for Infectious Diseases: How do we Manage the Ethical Issues?” in a symposium entitled: Ethics in Laboratory Medicine. American Society of Microbiology, ASM Microbe 2016, Boston, MA, June 16-20, 2016.
- 2016 Invited Speaker, “LDTs and You” in a symposium entitled: Late Breaking Clinical Microbiology Updates from Laboratory Practices and Professional Affairs Committee”. American Society of Microbiology, ASM Microbe 2016, Boston, MA, June 16-20, 2016.
- 2016 Invited Speaker, “Study Design I and II” in a workshop entitled Workshop on Scientific Publishing for Clinical Microbiologists in China, sponsored by American Society of Microbiology, Chinese Medical Association and the Peking University Health Services Center. Beijing, China, September 17-18, 2016.
- 2016 Invited Speaker, “Host Protein Biomarkers: Con View” in a symposium entitled: Distinguishing viral and bacterial infections: Diagnostic Debate. ID Week 2016, New Orleans, LA.
- 2017 Invited Speaker, “Diagnostic Evaluation of Immunocompromised Patients” in a symposium entitled: ID Fellows 101. ASM Microbe 2017, New Orleans, LA.
- 2017 Invited Speaker, “Diagnosis and treatment of CNS infections due to HSV and VZV, 34th Annual Workshop of Infectious Diseases, National Reference Laboratory, Hobart, Tasmania, Australia, October 17-18, 2017

- 2017 Invited Speaker, “Use of viral load testing in managing transplant infections: What is behind the viral load value?”, Workshop on Molecular Diagnostics, National Reference Laboratory, Hobart, Tasmania, Australia, October 16-17, 2017
- 2018 Invited Speaker, “Clinical Perspective on Clinical Validation” in a symposium entitled: Off-Label and On Target: IVD, LST, EUA, What to Do? ASM Microbe 2018, Atlanta, GA.
- 2018 Invited Speaker and Moderator, “The Laboratory-Clinician Interface: Communication and Interpretation of Diagnostic Data” in a session entitled: If bugs meet bits and bytes. International Roche Infectious Diseases Symposium. 2018. September 24-26, Vienna, Austria.
- 2019 Invited Speaker, “Clinical Cases” Latin America Meeting, Pan American Society for Clinical Virology, Panama City, Panama September 10-11, 2019.
- 2021 Invited Speaker, “Molecular Diagnostics and Antigen Testing for COVID-19”, in a session entitled: Case-based Guidelines. ID Week 2021.
- 2022 Invited Speaker, “An Update on Standardization and Harmonization of Molecular Diagnostics” in a session entitled: Laboratory Diagnosis of Viral Diseases, Clinical Virology Symposium, May 1-4, 2022, West Palm Beach, FL.
- 2023 Invited Speaker, Future of Value-Based Care and Impact on Physician Compensation, 2023 Chief Medical Officers’ Group & Group on Faculty Practice Joint Spring Meeting, AAMC, March 16-17, 2023, Washington, DC.

GRANTS

Active support

Previous Support

1. Performance evaluation of the Aptima CMV Quant Assay in plasma samples. Principal Investigator. Hologic, Inc. Total Direct Costs: \$151,376. 2020-2021.
2. Detection of DNA viruses in Plasma from Transplant Patients using Galileo Pathogen Solution Next-Generation Sequencing Assay. Arc Bio, LLC, Total Direct Costs \$45,543. 2018-2019.
3. Method comparison study protocol for the Aptima HSV 1&2 assay. Principal Investigator. Hologic, Inc. Total Direct Costs: \$54,336. 2015-2016.
4. Performance Evaluation of the Panther Fusion, Genmark, Cepheid, and Quidel Respiratory Assays in Nasopharyngeal and/or Lower Respiratory Tract Specimens. Principal Investigator. Hologic, Inc. Total Direct Costs: \$92,411. 2016-2017
5. T2Dx Reproducibility Study. Principal Investigator. T2 Biosystems. Total Direct costs: \$12,000, 2013-2016.
6. On-site automated detection of DIRECT patient samples. Principal Investigator. T2 Biosystems. Total Direct costs: \$17,668, 2015-2016.
7. Performance evaluation of the Aptima HIV-1Quant Dx Assay for the detection and

quantification of human immunodeficiency (HIV) virus type 1 in plasma samples.
Principal Investigator. Hologic, Inc. Total Direct Costs: \$55,868, 2015-2016.

8. Clinical Laboratory Diagnostics for Invasive Aspergillosis. Co-Investigator, Emory PI. (PI, Wingard). NIH/NIAID. Total direct costs: \$8,996,000 (Emory Subcontract: \$848,000). 5/31/07-5/31/14.
9. Emory Center for AIDS Research. Co-investigator (5% effort). (Co-Director, Virology/Drug Discovery Core), (PI, Curran). NIH/NIAID. Total direct costs: \$5,437,520. 8/01/012-7/31/17 .
10. Serious Hazards of Transfusion and Cellular Therapies: Mechanisms and Interventions. Co-Investigator (5%). (PI, Roback). NIH. Total Cost \$1,505,450. 9/15/08-9/14/13.
11. Validation of the artus CMV RG PCR Kit. Qiagen, Co-investigator (PI, Lyon). Cost: \$63,447, 3/10-3/14.
12. Clinical Reproducibility Study. Roche Molecular Systems. Cost: \$26,512, Role: PI. 12/10 – 12/14.
13. Clinical Utility Study, Roche Molecular Systems. Cost: \$27,578, Role: PI. 12/14/10-12/14/14
14. A Multilevel HIV-Prevention Strategy for High-Risk Youth. Co-investigator (5% effort). (PI, DiClemente). NIH. Total direct costs: \$255,703. 9/04-7/09
15. HIV Sexual Risk-Reduction for African American Couples. Co-investigator (7.5% effort). (PI, Wingood). NIH. Total cost \$4,658,000. 2/02-11/08.
16. Antiviral therapy and HIV in the Genital Tract of Women. Subcontract PI (10% effort). (PI, Cu-Uvin). NIH RO1. Total direct costs \$1.5 million (Emory subcontract \$350,000). 4/97 - 3/03; 8/03-7/08.
17. Hope Clinic Microbicide Clinical Trials. Co-investigator (1% effort). (PI, Priddy). CDC. Total direct costs: \$643,682. 9/03-08/14/08
18. Rapid Virus Concentration and Purification for Enhanced Throughput and Sensitivity of Molecular and Diagnostic Virus Assays (10%). (PI, Caliendo and LeDoux). The Wallace H. Coulter Translational/Clinical Research Seed Grant Program. Total direct costs: \$100,000 9/05-9/06.
19. HIV Prevention for Xhosa Women in South Africa. Co-investigator (2% effort). (PI, Wingood). NIAID. Total direct costs: \$365,614. 9/30/04-7/31/07
20. HIV RNA CD4 Assays for Resource-Poor Countries. Co-investigator (2% effort). (PI, Feinberg/Caliendo). Doris Duke Innovation and Clinical Research Award for the Doris Duke Foundation. Total direct costs: \$200,000. 9/1/03-8/31/06.
21. PCR Screening for CMV in Umbilical Cord Blood Stem Cells. Co-investigator (2.5% effort). (PI, Hillyer). NIH. Total direct costs: \$100,000. 4/01/02-3/31/05
22. DNA, MVA, Immunogens, Cross-Clade Immune Response. Co-investigator (5% effort). (PI, Robinson). Total direct costs \$1.8 million. 4/01 – 6/06 (Caliendo is no longer on grant).

23. Directly Observed Highly Active Antiretroviral Therapy for Active Substance Abusers. Co-investigator (5% effort). (PI, Flanigan). NIH RO1. Total direct costs \$2.4 million (Subcontract). 7/01 - 8/04.
24. CMV Resistance, Viral Burden and Clinical Progression. Co-investigator. (PI, Crumpacker). NIH/NIAID. Total Direct Costs \$150,000 (Subcontract). 9/97 – 8/00.
25. CMV Quantitation Working Group. (PI, Caliendo). AIDS Clinical Trials Group. Total Direct Costs \$23,675. 5/99 - 4/01.
26. CMV/DNA Qualitative and Quantitative. (PI, Caliendo). AIDS Clinical Trials Group. Total Direct Costs \$57,440. 5/99 - 4/03.
27. A Probe Study of the Safety, Tolerability and Immunogenicity of the Human Immunodeficiency Virus Type 1 (HIV-1) gag DNA Vaccine in Healthy Adults. Co-investigator (5% effort). (PI, Feinberg) Merck, protocol 007. Total costs \$126,500. 12/99 - 5/03.
28. Nucleic Acid Testing for Cytomegalovirus to Improve the Quality of Umbilical Cord Blood Stem Cell Components for Transplantation. Co-investigator (5% effort). (PI, Hillyer). Holland Laboratory Biomedical Development Project, American Red Cross. Total Costs: \$75,000. 7/01 - 8/02.
29. Persons without HAART: characteristics and determinants. Co-investigator (5% effort). (PI, DelRio). NIH RO1. Total direct costs \$307,640. 9/00 - 8/03.

UNIVERSITY TEACHING ROLES

Medical Students

Case Western Reserve University School of Medicine, Cleveland OH

1984 Introduction to Biochemistry
 Medical Student Teaching:
 Designed and Taught Matriculation Course for Medical Students on Basic
 Biochemistry and Metabolism
 30 contact hours, 12 students

Harvard Medical School, Boston, MA

1992 Identity, Microbes, and Defense
 Laboratory Instructor for 1st Year Medical Students
 20 students, 12 contacts hours/year

1995 Medical Microbiology/Pathogenesis of Infectious Diseases (Human Systems
 708.0), Tutor/ Instructor
 11 students, 16 contact hours/year

1996 Immunology, Microbiology and Infectious Diseases
 Tutor for 2nd year students
 9 students, 25 contact hours/year

1997 Immunology, Microbiology and Infectious Diseases
 Microbiology Laboratory Instructor
 11 students, 13 contact hours

1998 Immunology, Microbiology and Infectious Diseases

Microbiology Laboratory Instructor, Virology Laboratory Instructor, and CPB exercises 11 students, 17 contact hours

Graduate Program/Residency/Fellowship

Massachusetts General Hospital/Harvard Medical School

- 1994 - 1999 Clinical Pathology Lecture Series
Lecturer, Series on Clinical Microbiology and Infectious Diseases
6 Clinical Pathology Residents, 30 hours/year
- 1994 - 1999 Clinical Microbiology Plate Rounds
Lecturer, Clinical Microbiology Topics
5 Infectious Diseases Fellows, 2-3 Clinical Pathology Residents, 20 hours/year
- 1995 - 1997 Infectious Diseases Lecture Series
Lecturer, Clinical Virology, Molecular Diagnostics
15 - 20 Infectious Diseases Fellows and staff members, 2 hours/year
- 1996 - 1999 Internal Medicine Lecture series
Lecturer, Clinical Virology, Molecular Diagnostics
40 - 50 medical interns and residents
2 hours/year
- 1998 - 1999 Laboratory Medicine Rounds, Discussant
Rounds for Medical and Clinical Pathology Residents
10 - 15 residents, 30 hours/year

Emory University School of Medicine

- 1999 - 2011 Clinical Microbiology and Molecular Diagnostics teaching rounds at Emory University Hospital, 1-1.5 contact hours daily, 8 to 10 pathology residents have a 2-3 month rotation in Microbiology each year, 4 to 6 Infectious Diseases fellows have a 1 month rotation each year.
- 1999 - present Clinical Pathology Teaching Conference, 1 contact hour weekly, 15-20 Pathology Residents, and 8-12 faculty.
- 1999 Lecture entitled: Clinical Virology, Department of Pathology and Laboratory Medicine, 20 Residents, 2 contact hours.
- 2000 - 2003 Lecture, "Diagnostic and Clinical Virology", Graduate Student Virology Course (BS 513), Department of Microbiology, Emory University, 15 students, 2 contact hours.
- 2001, 2003 Clinical Pathology Resident Core Didactic Series in Microbiology: Lectures; "Clinical Virology", and "Molecular Diagnostics", Department of Pathology and Laboratory Medicine, 20 residents, 1 contact hour each.
- 2001 - 2003 Lecture, Molecular Diagnostics in Infectious Diseases, Department of Medicine, 30 Medical Residents, 1 contact hour.

- 2001 - present Infectious Diseases Fellow Core Didactic Series: Lecture, “Clinical Virology”, Department of Medicine, Division of Infectious Diseases, 10 Infectious Diseases Fellows, 1 contact hour.
- 2002 - present Infectious Diseases Fellow Core Didactic Series: Lecture, “Molecular Diagnostics for Infectious Diseases”, Department of Medicine, Division of Infectious Diseases, 10 Infectious Diseases Fellows, 1-2 contact hours.
- 2002 - present Lecture, Working with the Labs, Masters of Science in Clinical Research Program, Rollins School of Public Health, 12 students, 1.5 contact hours.
- 2002 - present Lecture, Global Issues in Antimicrobial Resistance, Masters in Public Health Program, Rollins School of Public Health, 8-12 students, 1.0 contact hours.
- 2005 Clinical Pathology Core Didactic Series in Microbiology: Lectures; “Clinical Virology”, “Molecular Diagnostics”, and “Clinical Cases”, Department of Pathology and Laboratory Medicine, 20 residents, 1 contact hour each.
- 2005 - present “Lecture, Microbiology in the Clinical Laboratory”, Course Title: Public Health/Clinical Microbiology Laboratories, Masters in Public Health Program, Rollins School of Public Health, 6-10 students, 2.0 contact hours.
- 2006 Lecture, “Skin and Soft Tissue Infections”, Infectious Diseases Lecture Series for Medical Residents, Department of Medicine, 25 residents, 1.0 contact hour.
- 2006 Lecture, “Diagnosis of Viral Respiratory Infections”, Lecture Series for Medical Residents, Department of Medicine, 25 residents, 1.0 contact hour.
- 2007 Clinical Pathology Core Didactic Series in Microbiology: Lectures; “Clinical Virology”, and “Clinical Cases”, Department of Pathology and Laboratory Medicine, 20 residents, 1 contact hour each.
- 2008 Lecture, “Central Nervous System Infections”, Infectious Diseases Lecture Series for Medical Residents, Department of Medicine, 25 residents, 1.0 contact hour.
- 2010 Clinical Pathology Core Didactic Series in Microbiology: Lectures; “Clinical Virology”, and “Molecular Virology”, Department of Pathology and Laboratory Medicine, 20 residents, 1 contact hour each.

Alpert Medicine School of Brown University

- 2017 -2019 Lecture, “Conflict Management”, Population Health Track, Brown Medical Students, 24 students, 1.5 hours.

Supervisory Teaching

- 1995 - 1996 Research Advisor for Cynthia Flynn, Pathology Resident

1-year project developing a *Chlamydia pneumoniae* PCR assay for use in the Clinical Microbiology Laboratory. Massachusetts General Hospital, Boston, MA.

- 2000 - 2001 Co-faculty Advisor for Kristin Fiebelkorn, MD, Pathology Fellow (Molecular Diagnostics). Emory University Hospital, Atlanta, GA. Current position: Clinical Pathology faculty, University of Texas Health Science Center, San Antonio, TX.
- 2001 - 2002 Co-faculty Advisor for Kristin Fiebelkorn, MD, Medical Microbiology Fellow. Emory University Hospital, Atlanta, GA. Current position: Clinical Pathology faculty, University of Texas Health Science Center, San Antonio, TX.
- 2002 - 2003 Co-faculty Advisor for Charles Hill, MD, PhD, Molecular Pathology Fellowship, Emory University Hospital, Atlanta, GA. Current position: Assistant Professor, Department of Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta, GA.
- 2003 - 2004 Co-faculty Advisor for J.B. Barbeau, MD, JD, Medical Microbiology Fellow, Emory University Hospital, Atlanta, GA. Current position: Faculty, Louisiana State University, New Orleans, LA.
- 2003 Co-faculty Advisory for Shealynn Harris, MD, Molecular Diagnostics Rotation (3 months), Emory University Hospital, Atlanta, GA.
- 2003 Co-faculty Advisory for Elizabeth Culler, MD, Molecular Diagnostics Rotation (3 months), Emory University Hospital, Atlanta, GA.
- 2004 - 2005 Co-faculty Advisor for Azita Djalilvand, MD, Molecular Pathology Fellowship, Emory University Hospital, Atlanta, GA. Current position: Assistant Professor, University of Florida, Jacksonville, FL.
- 2004 - 2005 Co-faculty Advisor for Adam Bressler, MD, Medical Microbiology Fellow, Emory University Hospital, Atlanta, GA. Current position: Director Clinical Microbiology Laboratory and Infectious Diseases Consultant DeKalb Medical Center, Atlanta, GA.
- 2005 - 2006 Co-faculty Advisor for Christine Kost, MD, Medical Microbiology Fellow, Emory University Hospital, Atlanta, GA. Current Position: Staff Pathologist, Dell Children's Hospital, Austin Pathology Associates, Austin Texas.
- 2005 - 2006 Co-faculty Advisor for Anu Radhakrishnan, M.D., Molecular Pathology Fellowship, Emory University Hospital, Atlanta, GA. Current Position: Pathologist, Quest Diagnostics, Tucker, GA.
- 2006 - 2007 Co-faculty Advisor for Audrey Schuetz, MD, Medical Microbiology Fellow Emory University Hospital, Atlanta, GA. Current Position: Assistant Director Microbiology, Dept of Pathology and Laboratory Medicine, Weill Medical College of Cornell University, New York, NY.

- 2006 - 2007 Co-faculty Advisor for, Arshad Ahsanuddin, MD, Molecular Pathology Fellow, Emory University Hospital, Atlanta, GA.
- 2007 - 2008 Co-faculty Advisor for Justin Cole, MD, PhD, Molecular Genetic Pathology Fellow, Emory University Hospital, Atlanta, GA.
- 2008 - 2009 Co-faculty Advisor for Christine Schmotzer, MD, Molecular Genetic Pathology Fellow, Emory University Hospital, Atlanta, GA.
- 2008 - 2009 Co-faculty Advisor for Cindy McCloskey, MD, Medical Microbiology Fellow Emory University Hospital, Atlanta, GA.
- 2009 - 2010 Co-faculty Advisor for Cindy McCloskey, MD, Molecular Genetic Fellow Emory University Hospital, Atlanta, GA.
- 2009 - 2010 Co-faculty Advisor for Colleen Kraft MD, Medical Microbiology Fellow Emory University Hospital, Atlanta, GA.
- 2010 - 2011 Co-faculty Advisor for Ruan Ramjit, MD, Medical Microbiology Fellow, Emory University Hospital, Atlanta, GA.