

CURRICULUM VITAE

Christopher H. Parsons, M.D.

Office Address:

Division of Infectious Diseases
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Education:

Undergraduate:	Kenyon College	1989-1993	B.A. (chemistry)
Medical School:	Case Western Reserve	1993-1998	M.D.

Internship/Residency:

Johns Hopkins Hospital	1998-2001	Internal Medicine
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Fellowship:

University of Virginia	2001-2004	Infectious Diseases and International Health
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Board Certification:

Infectious Diseases	2004
Internal Medicine	2001

Licensure:

South Carolina	2006-present
Virginia	2004-2006

Faculty Appointments:

2007-present	Assistant Professor , Department of Internal Medicine, HIV/AIDS Service, Ralph Johnson VA Medical Center, Charleston, SC
2006-present	Assistant Professor , Departments of Internal Medicine and Microbiology/Immunology, Medical University of South Carolina
2004-2006	Assistant Professor of Research , Division of Infectious Diseases, Department of Internal Medicine, University of Virginia

Academic Appointments:

2007-present	Associate Member , College of Graduate Studies, Medical University of South Carolina
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- 2006-present **Director, Basic Research**, Division of Infectious Diseases, Medical University of South Carolina
- 2006-present **Research Associate**, Cancer Immunology and Immunotherapy Section, Hollings Cancer Center, Medical University of South Carolina

Clinical Interests:

- Antiretroviral therapy for HIV
Infections in immune compromised hosts
AIDS-related malignancies
General infectious diseases (inpatient and outpatient)

Hospital Appointments:

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| 2007-present | Active | VA Medical Center, Charleston, SC |
| 2006-present | Active | Medical University of South Carolina |
| 2001-2006 | Inactive | University of Virginia Medical Center |
| 2004-2005 | Inactive | Augusta Medical Center, Augusta, VA |

Membership in professional/scientific societies:

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| 2008-present | Member | MUSC Junior Translational Investigator Society |
| 2008-present | Member | MUSC Nutritional Research Consortium |
| 2007-present | Member | South Carolina Infectious Disease Society |
| 2007-present | Member | American Society for Microbiology |
| 2001-present | Member | Infectious Diseases Society of America |
| 2001-2004 | Member | Virginia Infectious Diseases Society |

Committee Membership

- 2007-present **MUSC Department of Medicine “Wet Lab” Operations Group.** This group evaluates departmental research practices to improve and streamline operational aspects of research while promoting intradepartmental collaborations.
- 2007-present **Director, Viral Malignancies Focus Group.** This research group focuses on providing critical manuscript and grant application review for projects at MUSC involving tumor viruses.
- 2007-present **Microbiology and Immunology Graduate Steering Committee.** This committee administers and evaluates the qualifying examination, provides oversight for policies related to graduate coursework, and provides individual assistance to students as needed.
- 2007-present **Biosafety Level-3 Oversight Committee.** This committee provides oversight for the operation, protocol approval, and training of laboratory personnel related to the BSL-3 facility at the Medical University of South Carolina. Of special interest is the evaluation and treatment of persons exposed to BSL-3 level pathogens in this facility.

Editorial Positions:

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| 2008-present | Ad Hoc Reviewer | <i>Journal of Medical Virology</i> |
| 2007-present | Ad Hoc Reviewer | <i>Journal of Clinical Virology</i> |
| 2004-present | Ad Hoc Reviewer | <i>Blood</i> |
| 2004-present | Ad Hoc Reviewer | <i>Clinical Infectious Diseases</i> |

2004-present Ad Hoc Reviewer *Journal of Virology*
2004-present Ad Hoc Reviewer *Leukemia*

Other Professional Activities

2007-present **Applicant Interviewer**, MSTP and Medicine Residency Programs, Medical University of South Carolina, Charleston, SC

Continuing Research Education:

2008 **MUSC Microscopy Workshop.** Instructor: Venkat Ramshesh, Medical University of South Carolina. A scholarship was received to attend this two-day workshop for instruction in the use of light, fluorescence, and confocal microscopy techniques.

2008 **Participant, Research Project and Grant (RPG) Review Retreat.** MUSC Office of Research Development. Proposal reviewed: “KSHV Regulation of Innate Cytokine Responses and T Cell Activation.”

2008 **Grantsmanship Workshop.** Instructor: Dr. Anthony M. Coelho, Jr, former NIH Review Policy Officer and Chief of the Clinical Studies and Training Review at the National Heart Lung and Blood Institute, National Institutes of Health.

2006-2007 **Grant-writing Workshop.** Instructor: Dr. Ron Geller, former Director, Heart, Lung and Blood Institute, National Institutes of Health.

Grant Support:

Current Support

2008-2011 **Medical University of South Carolina COBRE Oral Health Junior Investigator Award.** (direct costs: \$367,500). National Institute of Dental and Craniofacial Research. PI: Chris Parsons. Project Title: “KSHV Regulation of Innate Cytokine Responses and T Cell Activation.”

2008-2009 **Hollings Cancer Center Translational Pilot Research Award.** (direct costs: \$40,000). Medical University of South Carolina, Hollings Cancer Center. PI: Chris Parsons. Project Title: “Targeting xCT as a therapeutic strategy for AIDS-associated cancer.”

2006-2010 **Medical University of South Carolina Research Grant.** (direct costs \$508,266). PI: Chris Parsons. MUSC Department of Medicine. Project title: “Development of Model Systems for KSHV-related oncogenesis.”

2004-2009 **NIH Mentored Clinical Scientist Research Award.** (direct costs \$616,125), National Cancer Institute. PI: Chris Parsons. Project title: “An Animal Model for Kaposi’s Sarcoma.” (K08-1CA103858). Priority score: 155.

Past Support

2007-2008 **Abney Foundation Award.** (direct costs \$22,500) provided to support stipend of Patricia Kearney, graduate student (mentor: Chris Parsons). Project title: “Regulation of Toll-like Receptor Signaling and the Innate Immune Response by a Macrophage-tropic Oncogenic Herpesvirus.”

2007-2008 **Abney Foundation Award.** (direct costs \$22,500) provided to support stipend of Iris Moralez, graduate student (mentor: Chris Parsons). Project title: “Viral Attenuation of Cytotoxic T Cell Activation as a Mechanism of Tumor Immune Escape.”

- 2003-2004 **Elizabeth Glaser Pediatric AIDS Foundation Research Award.** PI: Dean H. Kedes (co-author: Chris Parsons). (direct costs: \$100,000). Unrestricted award to support the ongoing development of an animal model for Kaposi's sarcoma.
- 2001-2003 **Farrow Fellowship Award.** Two-year grant (\$35,000 per annum) provided on behalf of the Farrow Medical Alumni Foundation by The University of Virginia Health Sciences Cancer Center to two fellows at The University of Virginia to support basic research training of clinical fellows that will contribute to discoveries of the molecular basis of cancer.

Formal Mentorship:

- 2008-present Eduardo Freitas, **Clinical Fellow**, Medical University of South Carolina and Veterans Affairs Medical Center. Project: Regulation of xCT expression by KSHV.
- 2008 Michael Guthrie, **MSTP student**, Medical University of South Carolina. Project: Exogenous ceramide induction of KSHV replication and apoptosis of B cell tumors.
- 2008 Roger Sullivan, **Medical Student Summer Scholar**, Medical University of South Carolina. Project: Expression of xCT in dermatologic Kaposi's sarcoma lesions.
- 2008-present Ben Kalivas, **Medical Student Summer Scholar**, Medical University of South Carolina. Project: Regulation of a membrane-bound amino acid transport molecule by KSHV.
- 2007-present Patricia Kearney, **MSTP student**, Medical University of South Carolina. Project: Regulation of IL-8 transcriptional activation by KSHV.
- 2007-present Sarumathi Mohan, Ph.D, **Post-Doctoral Fellow**, Department of Medicine, Medical University of South Carolina. Project: The role of ceramide metabolites in KSHV entry-initiated signal transduction.
- 2007-present Zhiqiang Qin, Ph. D, **Post-Doctoral Fellow**, Department of Medicine, Medical University of South Carolina. Projects: 1) KSHV microRNA regulation of innate cytokine responses; 2) The role of Hsp90 in the regulation of KSHV-initiated signal transduction.
- 2007-present Michael DeFee, **graduate student**, Department of Pathology (DMD/PhD), Medical University of South Carolina. Project: The role of chaperone proteins in the establishment of KSHV infection
- 2007 James Kuhnen, **MSTP student**, Medical University of South Carolina. Research Paper: "Pathogenesis of Kaposi's sarcoma in AIDS"
- 2006-2008 Iris Moralez, **Masters student**, Department of Microbiology and Immunology, Medical University of South Carolina. Research Project: Mechanisms of DC functional impairment by KSHV.
- 2004-2005 Jon Overdevest, **MSTP student**, University of Virginia School of Medicine. Project: KSHV gene expression in a murine model.

Active Teaching Responsibilities:

Instructor, MUSC Internal Medicine Residency Training Program Didactic Series

Topics: Select infectious diseases, HIV-related infections

Instructor, MUSC Biomedical Science Graduate Training Program

Microbiology and Immunology:

- Advanced Topics in Immunology (MBIM-731): T cell activation and cell-mediated effector responses
- Infection and Immunity (MBIM-613/4G): DNA tumor viruses, Clinical Herpesviruses
- Virology (MBIM-725): KSHV, Antiretroviral approaches to HIV therapy

Molecular and Cell Biology

- Topics in Cancer (MCBP-725-1): cytokine signaling and the anti-cancer innate immune response

Instructor, MUSC Medical School of Medicine

Year 4: Antiviral medications

Year 3: Leader for infectious diseases small group case discussion

Year 1: History and physical diagnostic skills

Instructor, MUSC Infectious Diseases Fellowship Training Program Didactic Series

Topics: AIDS-related cancers; Opportunistic infections in HIV-infected patients; Acute HIV Retroviral Syndrome; antiretroviral therapy for HIV infection

Discussant, Annual AIDS Research Symposium, MUSC School of Medicine

Topic: HIV-related clinical cases

Attending Physician, General Inpatient Infectious Disease Service

Supervision of 1 fellow, 1-2 residents, and 1-3 students for 6 hours/day, 6 weeks/academic year; duties are performed at the Medical University of South Carolina and Ralph Johnson Veterans Administration Medical Center, Charleston, SC

Attending Physician, Outpatient Infectious Diseases Clinic

Practitioner and supervisor of infectious disease fellows and students for 4-5 hours/day, 1 day/week in outpatient HIV clinic affiliated with the Medical University of South Carolina

Publications:

Peer-reviewed original articles

- 2006 Adang, L.A., **Parsons, C.H.**, Kedes, D.H. “Asynchronous progression through the lytic cascade with variations in intracellular viral loads revealed by high-throughput single cell analysis of KSHV infection.” *Journal of Virology*. 2006; 80(20): 10073-82.
- 2006 **Parsons, C.H.**, Adang, L.A., Overdevest, J.B., O’Connor, C.M., Taylor, J.R., Camerini, D., and Kedes, D.H. KSHV targets multiple hematopoietic cell types following long-term productive infection in NOD/SCID mice. *J Clin Invest*. 2006; 116(7): 1963-73.
- 2004 **Parsons, C.H.**, Szomju, B. and Kedes, D.H. Susceptibility of Human Fetal Mesenchymal Stem Cells to Kaposi’s Sarcoma-associated Herpesvirus. *Blood*. 2004; 104(1): 2736-8.

Invited Reviews

- 2005 **Parsons, C.H.**, Kinase Lynks to herpesvirus lymphomagenesis. *Blood*. 2005; 105: 3762.

Chapters in scholarly text

- 2008 **Parsons, C.** “Community-acquired Viral Infections.” In Management of Antimicrobials in Infectious Diseases: Impact of Antimicrobial Resistance. Copyright 2008, New York: Springer. (in press)
- 2004 **Parsons, C.,** Wispelwey, B. “Antifungal Agents.” In Human Pharmacology: Molecular to Clinical, 4th Edition, Chapter 55. Copyright 2004, Elsevier Limited.
- 2003 **Parsons, C.,** Petri, W. “Central Nervous System Infection due to Free-Living Amebae.” In Central Nervous System Infections, 3rd Edition, Chapter 45. Copyright 2003, Lippincott, Williams & Wilkins.

Abstracts

- 2008 Qin, Z, Isaacs, J, and **Parsons, C.H.** Targeting extracellular Hsp90 reduces KSHV gene expression during *de novo* infection by inhibiting MAPK pathway activation. 11th International Workshop on Kaposi’s sarcoma-associated herpesvirus and related agents. University of Birmingham, UK
- 2008 Moralez, I and **Parsons, C.H.** Development of a tolerogenic dendritic cell phenotype following infection by an oncogenic herpesvirus. International Cancer Symposium, Hollings Cancer Center, Medical University of South Carolina, Charleston, SC.
- 2008 Qin, Z and **Parsons, C.H.** Regulation of macrophage function by microRNA encoded by an oncogenic herpesvirus. International Cancer Symposium, Hollings Cancer Center, Medical University of South Carolina, Charleston, SC.
- 2008 Qin, Z, Isaacs, J, and **Parsons, C.H.** Targeting membrane-associated hsp90 inhibits the establishment of latent infection by an oncogenic herpesvirus. International Cancer Symposium, Hollings Cancer Center, Medical University of South Carolina, Charleston, SC.
- 2008 Moralez, I and **Parsons, C.H.** Impaired co-stimulatory molecule expression and Th1 cytokine release by dendritic cells infected with an oncogenic herpesvirus. Abstract #268. Keystone Viral Immunology Symposium, Keystone, CO.
- 2008 Kearney, P, Moralez, I and **Parsons, C.H.** Functional alteration of macrophages by an oncogenic herpesvirus. Abstract #220. Keystone Viral Immunology Symposium, Keystone, CO.
- 2007 Moralez, I and **Parsons, C.H.** Promotion of a tolerogenic dendritic cell phenotype by an oncogenic herpesvirus. 2nd Annual Department of Medicine Research Day, Medical University of South Carolina, Charleston, SC.
- 2007 Kearney, P and **Parsons, C.H.** An oncogenic herpesvirus attenuates TLR-mediated macrophage activation and promotes regulatory T cell expansion. 2nd Annual Department of Medicine Research Day, Medical University of South Carolina, Charleston, SC.
- 2007 Qin, Z and **Parsons, C.H.** Regulation of macrophage activation by microRNA encoded by an oncogenic herpesvirus. 2nd Annual Department of Medicine Research Day, Medical University of South Carolina, Charleston, SC.
- 2007 Moralez, I and **Parsons, C.H.** Promotion of a tolerogenic dendritic cell phenotype by an oncogenic herpesvirus. Hollings Cancer Center Research Symposium, Medical University of South Carolina, Charleston, SC.
- 2007 Kearney, P and **Parsons, C.H.** Alteration of TLR-mediated macrophage activation and regulatory T cell expansion by an oncogenic herpesvirus. Hollings

- Cancer Center Research Symposium, Medical University of South Carolina, Charleston, SC.
- 2007 Kearney, P and **Parsons, C.H.** Functional alteration of macrophages by an oncogenic herpesvirus. Abstract #193. MUSC Student Research Day, Medical University of South Carolina, Charleston, SC.
- 2007 Moralez, I and **Parsons, C.H.** Impaired co-stimulatory molecule expression and Th1 cytokine release by dendritic cells infected with an oncogenic herpesvirus. Abstract #206. MUSC Student Research Day, Medical University of South Carolina, Charleston, SC.
- 2007 Guthrie, JM, Ford, H, and **Parsons, C.H.** Regulation of the function and trafficking of tumor-associated macrophages by an oncogenic herpesvirus. Abstract #23. 18th Annual MSTP Student Research Day, Medical University of South Carolina, Charleston, SC.
- 2006 **Parsons, C.H.**, Adang, L.A., Overdeest, J.B., O'Connor, C.M., Taylor, J.R., Camerini, D., and Kedes, D.H. KSHV targets multiple hematopoietic cell types following long-term productive infection in NOD/SCID mice. Abstract #63, 9th International Workshop on Kaposi's Sarcoma-Associated Herpesvirus and Related Agents, Cape Cod, Massachusetts.
- 2005 **Parsons, C.H.**, Overdeest, J.B., O'Connor, C.M., Camerini, D., and Kedes, D.H. "Sustained Growth of KSHV/HHV8 in An Animal Model: Infection of Hematopoietic Tissue, Recapitulation of the Human Serologic Response, and Inhibition by Ganciclovir." Abstract #2711, 43rd Annual Meeting of The Infectious Diseases Society of America, San Francisco, California.
- 2005 **Parsons, C.H.**, Overdeest, J.B., O'Connor, C.M., and Kedes, D.H. "An In Vivo Model for Long-Term KSHV Infection: Latent and Lytic Gene Expression within Murine Hematopoietic Tissue and Recapitulation of Human Serologic Response." Abstract #60, 9th International Conference on Malignancies in AIDS and Other Acquired Immunodeficiencies: Basic, Epidemiologic, and Clinical Research, National Institutes of Health, Bethesda, Maryland
- 2005 **Parsons, C.H.**, Overdeest, J.B., O'Connor C.M., and Kedes, D.H. "An In Vivo Model for Long-Term KSHV Infection: Latent and Lytic Gene Expression within Murine Hematopoietic Tissue and Recapitulation of Human Serologic Response." Abstract #81, 8th International Workshop on Kaposi's Sarcoma-Associated Herpesvirus and Related Agents, Wildbad Kreuth, Germany
- 2004 **Parsons, C.H.**, Tomescu, C., Kedes, D.H. "A Model System to Develop Novel Therapeutic Strategies for Herpesvirus Oncogenesis." Abstract #15, Third International Congress on Targeted Therapies in Cancer, Washington, D.C.
- 2004 **Parsons, C.H.** Szomju, B. and Kedes, D.H. "KSHV Infection of Human Fetal Mesenchymal Stem Cells" (Poster presentation) Internal Medicine Research Day, Department of Internal Medicine, University of Virginia, Charlottesville, Virginia
- 2003 **Parsons, C.H.** and Kedes, D.H. "An Animal Model for Kaposi's Sarcoma." Abstract #D-84, 10th Conference on Retroviruses and Opportunistic Infections, Boston, Massachusetts.
- 2002 **Parsons, C.H.** and Kedes, D.H. "A Novel Animal Model for Herpesvirus Infection and Oncogenesis." Abstract #101201, 40th Annual Meeting of The Infectious Diseases Society of America, Chicago, Illinois.

- 2002 **Parsons, C.H.** and Kedes , D.H. “Development of a Novel Animal Model for KS Pathogenesis.” Abstract #75, 5th Annual International KSHV Research Conference, Irsee, Germany.
- 2002 **Parsons, C.H.** and Kedes , D.H. “A Novel Murine Model for Kaposi’s Sarcoma-Associated Herpesvirus Infection and Kaposi’s Sarcoma Formation.” (Poster Presentation) Internal Medicine Research Day, Department of Internal Medicine, University of Virginia, Charlottesville, Virginia.

Awards and Honors:

- 2008 **MUSC 2008 Developing Scholar Nominee.** One of 11 junior investigators at the Medical University of South Carolina nominated based on research accomplishments during the early stages of their first independent appointment.
- 2008 **Infectious Diseases Society of America Medical Scholars Program Award.** Awardee: Patricia Kearney (mentor: Chris Parsons). Project title: “Regulation of IL-8 expression by an Oncogenic Herpesvirus.” This award (\$2,000) provides stipend support for the awardee to explore the mechanisms for regulation of IL-8 expression by the Kaposi’s sarcoma-associated herpesvirus (KSHV).
- 2008 **Infectious Diseases Society of America Medical Scholars Program Award.** Awardee: Benjamin Kalivas (mentor: Chris Parsons). Project Title: “Regulation of xCT by an Oncogenic Herpesvirus.” This award (\$2,000) provides stipend support for the awardee to explore the mechanisms for regulation of xCT expression by the Kaposi’s sarcoma-associated herpesvirus (KSHV).
- 2008 **Infectious Diseases Society of America Medical Scholars Program Award.** Awardee: Michael Guthrie (mentor: Chris Parsons). Project Title: “The Role of Sphingolipids in Herpesvirus Infection.” This award (\$2,000) provides stipend support for the awardee to explore the role of sphingolipids in herpesvirus gene expression following initial infection of susceptible target cells.
- 2007-2008 **Excellence in Teaching Nominee, Department of Internal Medicine, Medical University of South Carolina.** Twice nominated by students and residents for outstanding teaching within the didactic curriculum while attending on the Inpatient Infectious Diseases Consultation Service.
- 2007 **Keystone Immunology Scholarship Award.** Travel award for graduate student, Iris Moralez, to attend the 2008 Keystone Viral Immunology Meeting, Keystone, CO. (mentor: Chris Parsons). Abstract: “Impaired co-stimulatory molecule expression and Th1 cytokine release by dendritic cells infected with an oncogenic herpesvirus”
- 2006 **“Faculty of 1000” (Biology subgroup) Award.** (<http://www.f1000biology.com/article/id/1033508/evaluation>). This citation (nominated by Dr. Patrick Moore, the co-discoverer of KSHV) recognizes our creation of the first available model for *de novo* KSHV infection (ref: *J Clin Invest.* 2006; 116(7): 1963-73.).
- 2006 **“Editor’s Pick” Citation.** Special recognition by editors of the *Journal of Clinical Investigation* for our work detailing our creation of the first available

- animal model for *de novo* KSHV infection and expansion of relevant hematopoietic cells (ref: *J Clin Invest.* 2006; 116(7): 1963-73.)
- 2006 **“Faculty of 1000” (Biology subgroup) Award.**
(<http://www.f1000biology.com/article/id/1046936/evaluation>). This citation (nominated by Dr. Jeffrey Cohen) recognizes our creation of the first high-throughput assay for determining KSHV gene expression at the single cell level (*J Virol.* 2006; 80(20): 10073-82.).
- 2006 **Teaching Citation, Department of Internal Medicine, University of Virginia.**
Awarded by medical students for outstanding teaching during the third-year internal medicine clerkship.
- 2006 **NIH Loan Repayment Award.** Two-year award for entry-level NIH-sponsored clinician scientists with academic appointments whose research programs show exceptional promise for achieving novel biomedical discoveries (approximately 30% of applications funded during this cycle)
- 2003 **University of Virginia School of Medicine Award for Excellence in Teaching.**
Selected by resident physicians, students and faculty in the Department of Medicine and The University of Virginia School of Medicine for dedication and skill as a teacher on the inpatient and outpatient Infectious Disease Services.
- 2002 **Infectious Diseases Society of America Special Research Commendation.** One of 12 Infectious Disease Research Fellows recognized at The 40th Annual Meeting of the Infectious Diseases Society of America for outstanding original contributions to research in the area of infectious diseases during their fellowship.
- 2002-2004 **Glaxo Smith-Kline HIV Fellow Award.** Two-year award given to one Infectious Disease Fellow in the Virginia region recognizing involvement in educational activities related to the advancement of clinical and basic research and treatment of HIV infection.
- 1998 **Alpha Omega Alpha Medical Honor Society,** Case Western Reserve University School of Medicine
- 1995-1996 **Medical Student Fellowship in Anatomic Pathology.** One-year award from the Departments of Clinical and Anatomic Pathology, Henry Ford Hospital, Detroit, Michigan, to perform resident-level duties in the following areas: autopsy and gross specimen processing, hematology, microbiology, chemistry, cytology, and the ligand assay laboratory.
- 1993 **Magna Cum Laude,** Kenyon College (chemistry)
- 1989-1993 **Kenyon Honors Science Scholarship.** Full tuition award provided to three students based on academic achievement for support in training for career in scientific field
- 1990 **Organic Chemistry Student of the Year,** Kenyon College
- 1991 **General Chemistry Student of the Year,** Kenyon College

Invited Presentations:

- 2008 “HIV/AIDS-related Oral Cancer Pathogenesis: Virus-Membrane Protein Interactions.” 23rd Annual F. Johnson Putney Lectureship. Medical University of South Carolina, Charleston, SC.
- 2008 “Replication-dependent regulation of innate cytokine responses by an oncogenic herpesvirus.” National Institute of Dental and Craniofacial Research, National Institutes of Health, Washington, D.C.

- 2008 “AIDS-related cancer: mechanisms for pathogenesis and the development of novel therapeutic strategies.” Medical Grand Rounds, Medical University of South Carolina, Charleston, SC.
- 2006 “Modeling KSHV infection and pathogenesis.” Microbiology Guest Lecture Series, University of Texas Southwestern, Dallas, Texas.
- 2006 “Initial anti-retroviral therapy for HIV infection.” Glaxo HIV Lecture Series, University of Virginia, Charlottesville, Virginia.
- 2006 “KSHV targets multiple hematopoietic cell types following long-term productive infection in NOD/SCID mice.” 9th International Workshop on Kaposi’s Sarcoma-Associated Herpesvirus and Related Agents, Cape Cod, Massachusetts.
- 2005 “An Update on the Mononucleosis Syndrome: Specific Diagnosis and Interpretation of EBV Serologies.” Recent Advances in Clinical Medicine for General Practitioners Seminar, Department of Internal Medicine, University of Virginia, Charlottesville, Virginia
- 2005 “An In Vivo Model for Long-Term KSHV Infection: Latent and Lytic Gene Expression within Murine Hematopoietic Tissue and Recapitulation of Human Serologic Response.” 8th International Workshop on Kaposi’s Sarcoma-Associated Herpesvirus and Related Agents, Wildbad Kreuth, Germany
- 2004 “Community-Acquired Pneumonia.” University of Virginia Infectious Diseases and Biodefense Course, University of Virginia, Charlottesville, Virginia
- 2004 “Model Systems for KSHV Infection.” Infectious Diseases and Biodefense Research Day, Department of Internal Medicine, Division of Infectious Diseases, University of Virginia, Charlottesville, Virginia
- 2002 “Development of a Novel Animal Model for KS Pathogenesis.” 5th Annual International KSHV Research Conference, Irsee, Germany.
- 2002 “Pathogenesis of Kaposi’s sarcoma: A Novel Animal Model.” Infectious Diseases and Biodefense Research Day, Division of Infectious Diseases, University of Virginia, Charlottesville, Virginia.
- 2000 “Diagnosis and Treatment of *Pneumocystis carinii* Pneumonia.” Resident Grand Rounds, Department of Medicine, Johns Hopkins Hospital, Baltimore, Maryland.