

## CURRICULUM VITAE

JUSTIN CHARLES MCARTHUR, MBBS, MPH

## DEMOGRAPHIC INFORMATION

**Current University and Hospital Appointments:**

1984- Neurological Consultant to Johns Hopkins Hospital AIDS Service  
 1992- Joint Appointment, Johns Hopkins University School of Hygiene and Public Health, Department of Epidemiology  
 1994- Co-Director, Cutaneous Nerve Laboratory  
 1996- Professor, Johns Hopkins University School of Medicine, Department of Neurology  
 2005- Joint Appointment, Department of Pathology  
 2008- Director, Department of Neurology, Professor of Neurology and Epidemiology  
 2009- Joint Appointment, Department of Medicine

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**Education and Training**

1974-79 Guys Hospital Medical School, London, U.K.  
 1988 M.P.H. Johns Hopkins University School of Hygiene and Public Health.  
 1979 House-officer in Surgery, Guys Hospital, London.  
 1980 House-officer in Medicine, Lewisham Hospital, London.  
 1980-82 Resident in Internal Medicine, Johns Hopkins Hospital, Baltimore, MD.  
 1982-85 Resident in Neurology, Johns Hopkins Hospital, Baltimore, MD.  
 1984-85 Chief Resident in Neurology, Johns Hopkins Hospital, Baltimore, MD.

**Professional Experience**

1985-90 Assistant Professor of Neurology, Johns Hopkins University, Baltimore, MD.  
 1985-91 Co-Director, Johns Hopkins University Multiple Sclerosis Comprehensive Care Clinic.  
 1988-95 Director, Neurology Medical Student Clerkship  
 1990-96 Associate Professor of Neurology  
 1995-2005 Director, Neurology Residency Program  
 2005-6 Acting Director, Department of Neurology, Professor of Neurology and Epidemiology  
 2006-8 Interim Director, Department of Neurology  
 2008- Director, Department of Neurology

**RESEARCH ACTIVITIES****Publications**Peer-revised original research articles:

1. **McArthur JC**: Epidemiology of anorexia nervosa. *Guys Hospital Gazette*, Jan. 1979, 28-32.
2. **McArthur JC**: Complications of a large pharyngeal pouch. *J Roy Soc Med* 73:829, 1980.
3. Yocum R, **McArthur JC**, et al: Septic arthritis caused by *P. acnes*. *JAMA* 248, 1740-41, 1982.
4. Roca R, Klein L, Kirby S, **McArthur JC**, et al: Recognition of dementia among inpatients. *Arch Intern Med* 144:73-75, 1984.
5. Dans PE, Nevin KL, Seidman CE, **McArthur JC**, Kariya ST. In hospital CPR 25 years later: Why has survival decreased? *South Med J* 78(10):1174-1178, 1985.

6. Johnson RT and McArthur J: AIDS and the brain. *Trends in NeuroSciences* 9(3):91-94, 1986.
7. Cornblath DR, **McArthur JC**, Kennedy PGE, Witte AS, and Griffin J: Inflammatory demyelinating peripheral neuropathies associated with human T-cell lymphotropic virus type III infection. *Ann Neurol* 21:32-40, 1987.
8. Uematsu S, Rosenbaum AE, Delong MR, Citrin CM, Jankel WR, Kumar AJ, **McArthur JC**, Nauta HJ, Sherman J, Narabayashi H: Magnetic resonance-planned thalamotomy followed by X-ray/CT-guided thalamotomy. *Acta Neuro Chirurgica Suppl* 39:21-24, 1987.
9. **McArthur JC**: Neurologic manifestations of AIDS. *Medicine* 66:407-437, 1987.
10. **McArthur JC**, Cohen BA, Farzadegan H, Cornblath, DR, Selnes OA, Ostrow D, Johnson RT, Phair J, Polk BF: Cerebrospinal fluid abnormalities in homosexual men with and without neuropsychiatric findings. *Ann Neurol* 23(suppl):S34-S37, 1988.
11. Rance NE, **McArthur JC**, Cornblath DR, Landstrom DL, Griffin JW, Price DL: Gracile tract degeneration in patients with sensory neuropathy and AIDS. *Neurology* 38:265-271, 1988.
12. Cornblath DR, **McArthur JC**: Predominantly sensory neuropathy in patients with AIDS and AIDS-related complex. *Neurology* 38:794-796, 1988.
13. Margolick JB, **McArthur JC**, Scott ER, McArthur JH, Cohn S, Farzadegan H, Polk BF: Flow cytometric quantitation of T cell phenotypes in cerebrospinal fluid and peripheral blood of homosexual men with and without antibodies to human immunodeficiency virus type I. *J Neuroimmunol* 20:73-81, 1988.
14. LaFrance N, Pearlson GD, Schaerf FW, **McArthur JC**, Polk BF, Links JM, Bascom MJ, Knowles MD, Galen SS: I-123 IMP-SPECT in HIV-related dementia. *Advances in Functional Imaging* 1:9-15, 1988.
15. Johnson RT, **McArthur JC**, Narayan O: The neurobiology of human immunodeficiency virus infections. *FASEB J* 2:2970-2981, 1988.
16. **McArthur JC**, Sipos E, Cornblath DR, Welch D, Chupp M, Griffin DE, Johnson RT: Identification of mononuclear cells in CSF of patients with HIV infection. *Neurology* 39:66-70, 1989.
17. Janssen RS, Cornblath DR, Epstein LG, **McArthur JC**, Price RW (American Academy of Neurology AIDS Task Force): Human immunodeficiency virus (HIV) infection and the nervous system. *Neurology* 39:119-122, 1989.
18. **McArthur JC**, Marek K, Pestronk A, McArthur J, Peroutka SJ: Nifedipine in the prophylaxis of classic migraine: A crossover, double-masked, placebo controlled study of headache frequency and side effects. *Neurology* 39:284-286, 1989.
19. **McArthur JC**, Cohen BA, Selnes OA, Kumar AJ, Cooper K, McArthur JH, Soucy G, Cornblath DR, Chmeil JS, Wang M-C, Starkey DL, Ginzburg H, Ostrow DG, Johnson RT, Phair JP, Polk BF: Low prevalence of neurological and neuropsychological abnormalities in otherwise healthy HIV-1-infected individuals: Results from the Multicenter AIDS Cohort Study. *Ann Neurol* 26:601-611, 1989.
20. **McArthur JC**, Becker PS, Parisi JE, Trapp B, Selnes OA, Cornblath DR, Balakrishnan J, Griffin JW, Price D: Neuropathological changes in early HIV-1 dementia. *Ann Neurol* 26:681-684, 1989.
21. Uematsu S, Delong M, Jankel W, **McArthur J**, Rosenbaum AE, Nauta H, Narabayashi H: Microphysiological recordings at CT gantry site during stereotactic thalamotomy. *Stereotactic and Functional Neurosurg* 52:183-190, 1989.
22. Uematsu S, Delong M, Jankel W, **McArthur J**, Rosenbaum AE, Nauta HY, Narabayashi H: Intraoperative CT-guided micro biopsy of brain lesions and concomitant use of CT air and angiographic studies. *Stereotactic and Functional Neurosurg* 52:250-261, 1989.
23. Miller EN, Selnes OA, **McArthur JC**, Satz P, Becker JT, Cohen BA, Sheridan K, Machado AM, van Gorp WG, Visscher B: Neuropsychological performance in HIV-1 infected homosexual men: The Multicenter AIDS Cohort Study (MACS). *Neurology* 40:197-203, 1990.
24. Selnes OA, Miller E, **McArthur J**, Gordon B, Munoz A, Sheridan K, Fox R, Saah AJ: HIV-1 infection: No evidence of cognitive decline during the asymptomatic stages. *Neurology* 40:204-208, 1990.
25. Cornblath DR, Griffin DE, Welch D, Griffin JW, **McArthur JC**: Quantitative analysis of endoneurial T-cells in human sural nerve biopsies. *J Neuroimmunol* 26:113-118, 1990.
26. **McArthur JC**, Kumar AJ, Johnson DW, Selnes OA, Becker JT, Herman C, Cohen BA, Saah A. Incidental white matter hyperintensities on magnetic resonance imaging in HIV-1 infection. *J AIDS* 3:252-259, 1990.
27. Van Wielink G, **McArthur JC**, Moench T, Farzadegan H, McArthur JH, Johnson RT, Saah A: Intrathecal synthesis of anti-HIV IgG: Correlation with increasing duration of HIV-1 infection.

- Neurology 40:816-819, 1990.
28. **McArthur JC**, Griffin JW, Cornblath DR, Griffin DE, Tesoriero T, Kuncl R, Gibbs CJ, Farzadegan H, Johnson RT: Steroid-responsive myeloneuropathy in a man dually infected with HIV-1 and HTLV-I. *Neurology* 40:938-944, 1990.
  29. Griffin DE, **McArthur JC**, Cornblath DR: Soluble interleukin-2 receptor and soluble CD8 in serum and cerebrospinal fluid during human immunodeficiency virus-associated neurologic disease. *J Neuroimmunol* 28:97-109, 1990.
  30. Brew BJ, Bhalla RB, Paul M, Gallardo H, **McArthur JC**, Schwartz MK, Price RW. Cerebrospinal fluid neopterin in human immunodeficiency virus type-I infection. *Annals of Neurology* 28:556-560, 1990.
  31. Griffin DE, **McArthur JC**, Cornblath DR. Neopterin and interferon-gamma in serum and cerebrospinal fluid of patients with HIV-associated neurologic disease. *Neurology* 41:69-74, 1991.
  32. Sherman ME, Erozan YS, Mann RB, Kumar AJ, **McArthur JC**, Royal W, Uematsu S, Nauta HJW. Stereotactic brain biopsy in the diagnosis of malignant lymphoma. *Am J Clin Pathol* 95:878-883, 1991.
  33. Selnes OA, Jacobson L, Machado AM, Becker JT, Wesch J, Miller EN, Visscher B, **McArthur JC**, Multicenter AIDS Cohort Study. Normative data for a brief neuropsychological screening battery. *Perceptual and Motor Skills* 73:539-550, 1991.
  34. MacMahon EME, Glass JD, Hayward SD, Mann RB, Becker PS, Charache P, **McArthur JC**, Ambinder RF. Epstein-Barr virus in AIDS-related primary central nervous system lymphoma. *Lancet* 338:969-73, 1991.
  35. van Gorp WG, Satz P, Hinkin C, Selnes O, Miller EN, **McArthur J**, Cohen B, Paz D and the Multicenter AIDS Cohort Study. Metacognition in HIV-1 seropositive asymptomatic individuals: self-ratings versus objective neuropsychological performance. *J Clin Exp Neurol* 13:812-819, 1991.
  36. Royal W III, Updike M, Selnes OA, Proctor TV, Nance-Sproson L, Solomon L, Vlahov D, **McArthur JC**. HIV-1 infection and nervous system abnormalities among a cohort of intravenous drug users. *Neurology* 41:1905-1910, 1991.
  37. Tyor WR, Glass JD, Griffin JW, Becker PS, **McArthur JC**, Bezman L, Griffin DE. Cytokine expression in the brain during the acquired immunodeficiency syndrome. *Ann Neurol* 31:349-360, 1992.
  38. Brew BJ, Bhalla RB, Paul M, Sidtis JJ, Keilp JJ, Sadler AE, Gallardo H, **McArthur JC**, Price R. Cerebrospinal fluid beta-2 microglobulin in patients with AIDS dementia complex: an expanded series including response to zidovudine treatment. *AIDS* 6:461-465, 1992.
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  40. Morriss R, Schaerf F, Brandt J, **McArthur J**, Folstein M. AIDS and multiple sclerosis: neural and mental features. *Acta Psychiatr Scand* 85:331-336, 1992.
  41. **McArthur JC**, Nance-Sproson TE, Griffin DE, Hoover D, Selnes OA, Miller EN, Margolick JB, Cohen BA, Farzadegan H, Saah A, for the Multicenter AIDS Cohort Study. The diagnostic utility of elevation in cerebrospinal fluid  $\beta_2$ -microglobulin in HIV-1 dementia. *Neurology* 42:1707-1712, 1992.
  42. Selnes OA, **McArthur JC**, Royal W, Updike ML, Nance-Sproson T, Concha M, Gordon B, Solomon L, Vlahov D. HIV-1 infection and intravenous drug use: Longitudinal neuropsychological evaluation of asymptomatic subjects. *Neurology* 42:1924-1930, 1992.
  43. Mathews VP, Alo PL, Glass JD, Kumar AJ, **McArthur JC**. AIDS-related CNS cryptococcosis - radiologic-pathologic correlation. *Am J Neuroradiol* 13:1477-1486, 1992.
  44. Dal Pan GJ, McArthur JH, Aylward E, Selnes OA, Nance-Sproson TE, Kumar AJ, Mellits ED, **McArthur JC**. Patterns of cerebral atrophy in HIV-1 infected individuals: Results of a quantitative MRI analysis. *Neurology* 42:2125-2130, 1992.
  45. Concha M, Graham NMH, Munoz A, Vlahov D, Royal W, Updike M, Nance-Sproson T, Selnes OA, **McArthur JC**. Effect of chronic substance abuse on the neuropsychological performance of intravenous drug users with a high prevalence of HIV-1 seropositivity. *Am J Epidemiol* 136:1338-1348, 1992.
  46. MacMahon EM, Glass JD, Hayward SD, Mann RB, Charache P, **McArthur JC**, Ambinder RF. Association of Epstein-Barr virus with primary central nervous system lymphoma in AIDS. *AIDS Res Human Retroviruses* 8:740-742, 1992.

47. Cohen BA, **McArthur JC**, Grohman S, Patterson B, Glass JD. Neurologic prognosis of CMV polyradiculomyelopathy in AIDS. *Neurology* 43:493-499, 1993.
48. Hoover DR, Munoz A, Carey V, Taylor JMG, Van Raden M, Chmiel JS, Bacellar H, Jacobson LP, Kuo V, Saah A, Farzadegan H, Graham N, Margolick J, **McArthur J** et al. Using events from dropouts in nonparametric survival function estimation with application to incubation in AIDS. *J Am Stat Assoc* 8:37-43, 1993.
49. Satz P, Morgenstern H, Miller EN, Selnes OA, **McArthur JC**, Cohen BA, Wesch J, Becker JT, Jacobson L, D'Elia LF, van Gorp W, Visscher B. Low education as a possible risk factor for cognitive abnormalities in HIV-1: Findings from the Multicenter AIDS Cohort Study (MACS). *J AIDS* 6:503-511, 1993.
50. Weiner HL, Mackin GA, Orav EJ, Hafler DA, Dawson DM, LaPierre Y, Herndon R, Leirich JR, Hauser SL, Turel A, Fisher M, Birnbaum G, **McArthur J**, Butler R, Moore M, Sigsbee B, Safran A, The Northeast Cooperative Multiple Sclerosis Treatment Group. Intermittent cyclophosphamide pulse therapy in progressive multiple sclerosis: Final report of the Northeast Cooperative MS Treatment Group. *Neurology* 43:910-918, 1993.
51. Tyor, WR, Glass JD, Baumrind N, **McArthur JC**, Griffin, JW, Becker PS, Griffin, DE. Cytokine expression in macrophages in HIV-1 associated vacuolar myelopathy. *Neurology* 43:1002-1009, 1993.
52. Wesselingh SL, Power C, Glass JD, Tyor WR, **McArthur JC**, Farber JM, Griffin JW, Griffin DE. Intracerebral cytokine messenger RNA expression in acquired immunodeficiency syndrome dementia. *Ann Neurol* 33:576-582, 1993.
53. Armstrong M, **McArthur JC**, Zinreich SJ. Radiographic imaging of sinusitis in HIV infection. *Otolaryngol Head Neck Surg* 108:36-43, 1993.
54. Zhou SYJ, Kingsley LA, Taylor JMG, Chmiel JS, He DY, Hoover DR, Farzadegan H, Margolick J, **McArthur JC**, Phair JP, Chmiel JS, Wesch J, Wolinsky S, Rinaldo CR, Gupta P, Ho M, et al. A method to test for a recent increase in HIV-1 seroconversion incidence - results from the Multicenter AIDS Cohort Study (MACS). *Statistics in Medicine* 12:153-164, 1993.
55. Hestad K, McArthur JH, Dal Pan GJ, Selnes OA, Nance-Sproson TE, Aylward E, Mathews VP, **McArthur JC**. Regional brain atrophy in HIV-1 infection: Association with specific neuropsychological test performance. *Acta Neurol Scand* 88:112-118, 1993.
56. Power C, Kong P-A, Crawford TO, Wesselingh S, Glass JD, **McArthur JC**, Trapp BD. Cerebral white-matter changes in acquired immunodeficiency syndrome dementia: Alterations of the blood-brain barrier. *Ann Neurol* 34:339-350, 1993.
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58. **McArthur JC**, Hoover DR, Bacellar H, Miller EN, Cohen BA, Becker JT, Graham NMH, McArthur JH, Selnes OA, Jacobson LP, Visscher BR, Concha M, Saah S. Dementia in AIDS patients: incidence and risk factors. *Neurology* 43:2245-2253, 1993.
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60. Holland NR, Power C, Mathews VP, Glass JD, Forman M, **McArthur JC**. CMV encephalitis in acquired immunodeficiency syndrome (AIDS). *Neurology* 44:507-514, 1994.
61. Harris GJ, Pearlson GD, **McArthur JC**, Zeger S, LaFrance ND. Altered cortical blood flow in HIV-seropositive individuals with and without dementia: a single photon emission computed tomography study. *AIDS* 8:495-499, 1994.
62. Griffin DE, Wesselingh SL, **McArthur JC**. Elevated central nervous system prostaglandins in HIV-associated dementia. *Ann Neurol* 35:592-597, 1994.
63. Royal W III, Selnes OA, Concha M, Nance-Sproson TE, **McArthur JC**. Cerebrospinal fluid HIV-1 p24 antigen levels in HIV-1-related dementia. *Ann Neurol* 36:32-39, 1994.
64. Power C, **McArthur JC**, Johnson RT, Griffin DE, Glass JD, Perryman S, Chesebro B. Demented and non-demented patients with AIDS differ in brain-derived human immunodeficiency virus type 1 envelope sequences. *J Virol* 68:4643-4649, 1994.
65. Bacellar H, Munoz A, Miller EN, Cohen BA, Besley D, Selnes OA, Becker JT, **McArthur JC**. Temporal trends in the incidence of HIV-1 related neurologic diseases: Multicenter AIDS Cohort Study, 1985-1992. *Neurology* 44:1892-1900, 1994.
66. Dal Pan GJ, Glass JD, **McArthur JC**. Clinicopathological correlations of HIV-1-associated vacuolar myelopathy: An autopsy-based case-control study. *Neurology* 44:2159-2164, 1994.

67. Wesselingh SL, Glass JD, **McArthur JC**, Griffin JW, Griffin DE. Cytokine dysregulation in HIV-associated neurological disease. *Advances in Neuroimmunology* 4:199-206, 1994.
68. Everall IP, Glass JD, **McArthur J**, Spargo E, Lantos P. Neuronal density in the superior frontal and temporal gyri does not correlate with the degree of human immunodeficiency virus-associated dementia. *Acta Neuropathol* 88:538-544, 1994.
69. Selnes OA, Galai N, Bacellar H, Miller EN, Becker JT, Wesch J, Van Gorp W, **McArthur JC**. Cognitive performance after progression to AIDS: A longitudinal study from the Multicenter AIDS Cohort Study. *Neurology* 45:267-275, 1995.
70. Silver SA, Arthur RR, Erozan YS, Sherman ME, **McArthur JC**, Uematsu S. Diagnosis of progressive multifocal leukoencephalopathy by stereotactic brain biopsy utilizing immunohistochemistry and the polymerase chain reaction. *Acta Cytologica* 39:35-44, 1995.
71. Barker PB, Lee RR, **McArthur JC**. AIDS dementia complex: evaluation with proton MR spectroscopic imaging. *Radiology* 195:58-64, 1995.
72. Power C, Selnes OA, Grim JA, **McArthur JC**. The HIV Dementia Scale: A rapid screening test. *J AIDS* 8:273-278, 1995.
73. Concha M, Selnes OA, **McArthur JC**, Nance-Sproson T, Updike ML, Royal W, Solomon L, Vlahov D. Normative data for a brief neuropsychologic test battery in a cohort of injecting drug users. *International Journal of Addictions* 30:823-841, 1995.
74. Aylward EH, Brettschneider PD, **McArthur JC**, Harris GJ, Schlaepfer TE, Henderer JD, Barta PE, Tien AY, Pearlson GD. Magnetic resonance imaging measurement of grey matter volume reductions in HIV-1 dementia. *Am J Psychiatry* 152:987-994, 1995.
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76. Tyor WR, Wesselingh S, Griffin JW, **McArthur JC**, Griffin DE. A unifying hypothesis of the pathogenesis of HIV-associated dementia complex, vacuolar myelopathy, and sensory neuropathy. *J AIDS* 9:379-388, 1995.
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82. Wright EJ, Brew BJ, Currie JN, **McArthur JC**. HIV-induced neurological diseases. *Med J Australia* 164:414-417, 1996.
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89. Subbiah P, Mouton P, Feder H, **McArthur JC**, Glass JD. Stereological analysis of cerebral atrophy in human immunodeficiency virus-associated dementia. *J Neuropathol Exp Neurol* 55:1032-1037, 1996.
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16. Royal W III, **McArthur JC**: HIV-associated neurologic disorders, Part 2: Superimposed infectious causes. J Crit Illness 4:30-42, 1989.
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  42. **McArthur JC.** Editorial Comment: Neurologic complications in HIV survivors: More vigilance required. The AIDS Reader 11:448-449, 2001.
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#### **Inventions, Patents, Copyrights**

- Murphy JC, Szczepanowski RP, Schneider W, Meyer RA, **McArthur JC**, Polydefkis M. Device for thermal stimulation of small neural fibers. World Intellectual Property Organization, International Publication Number WO 03/040672 A2, 15 May 2003.
- Murinson BB, **McArthur JC.** Medical Device for Treatment of Ulnar Neuropathy. UlnarGuard™ (JHU Ref: 4545)
- Nath A, Hoke A, **McArthur JC.** Immunophilin ligand treatment of antiretroviral toxic neuropathy (Provisional application number 60/466,650)

#### **Extramural Sponsorship**

Current Grant Support:

- 1) NIMH P30 MH075673 (McArthur)  
Center for novel therapeutics for HIV-associated cognitive disorders  
PI: McArthur, Justin  
JCM effort 23%  
Dates: 06/16/06 – 05/31/11  
Annual Direct Costs: \$1,127,234
- 2) NIDA R01 DA004334  
Natural History of HIV Infection in Injection Drug Users (ALIVE)  
PI: Kirk  
JCM Effort: 2.5%  
Dates: 3/27/07-11/30/11  
Annual Direct Costs: \$938,016
- 3) NIDA R01 DA12568  
Incidence of HIV Infection in a Cohort of Injection Drug Users  
PI: Mehta  
JCM Effort: 2.5%  
Dates: 4/15/08-1/31/13  
Annual Direct Costs: \$461,973
- 4) NIAID AI 27668  
AIDS Clinical Trial Unit (to develop clinical trials for HIV-associated neurological diseases)  
PI: Charles Flexner  
JCM Effort: 5%  
Dates: 2/5/07 - 11/30/13  
Annual Direct Costs: \$595,417
- 5) NIH R25MH080661  
Diversity related Neuro-Aids and Mental Health Research  
PI: Nath, Avindra  
JCM Effort: 5%  
Dates: 4/16/07-3/31/10  
Annual Direct Costs: \$173,716
- 6) TR3760-A-3 (Calabresi)  
National Multiple Sclerosis Society  
Mechanisms of Neurodegeneration and Neuroprotection in MS  
PI: Peter Calabresi  
JCM Effort: 1%  
Dates: 10/1/2005 – 01/31/2011  
Annual Direct Costs: \$846,969
- 7) NIMH 2 R25 MH080661-04  
Translational research in Neuro-AIDS and Mental Health  
PI: Nath, Avindra  
JCM Effort: 2.5%  
Dates: 09/01/10-06/30/15  
Annual Direct Costs: \$ 224,817

- 8) NIMH N01MH22005  
 Long Term effects of potent antiretroviral therapy on HIV-induced nervous system disease (CHARTER)  
 PI: Grant, Igor  
 JCM Effort: 2.5%  
 Dates: 09/16/10-09/15/15  
 Annual Direct Costs: \$171,828
- 9) Pfizer A0081251  
 An Open-Label, Extension Safety Trial of Pregabalin in Subjects with Neuropathic Pain Associated with HIV Neuropathy  
 PI: McArthur, Justin  
 JCM Effort: 2.5%  
 Annual Direct Costs: \$63,200
- 10) NIMH P30 MH 075673 Supplement  
 Supplement for PET Scanning  
 PI: McArthur, Justin  
 Dates: 06/01/10-05/31/11  
 Annual Direct Costs: \$65,568
- 11) NINDS K23 NS056009-04  
 Autonomic Function in Obstructive Sleep Apnea  
 PI: Peltier  
 JCM Effort:  
 Dates: 04/01/09-03/31/12  
 Annual Direct Costs: \$2,700
- 12) Chase-Braxton Health Services, Inc.  
 Ryan White Part C Early Intervention Services  
 PI: Keruly  
 JCM Effort:  
 Dates: 01/01/11-12/31/11

Previous Grant Support:

- 1) NIAID NO1 AI 32520  
 The Natural History of Acquired Immunodeficiency Syndrome (AIDS) in Homosexual Men (Neuropsychologic Component)  
 PI: B. Frank Polk  
 JCM Effort 60%  
 Dates: 8/1/86-9/30/87
- 2) NINDS RO1 NS 23936  
 Peripheral Neuropathies in AIDS Retrovirus Infection  
 PI: David Cornblath  
 JCM Effort: 10%  
 Dates: 8/1/86 - 10/31/89
- 3) NIAID NO1-AI-72634  
 The Natural History of Acquired Immunodeficiency Syndrome (AIDS) in Homosexual Men (Neuropsychologic Component)  
 (Neuropsychologic Component Director: Justin McArthur)  
 PI: Alfred Saah  
 JCM Effort: 60%  
 Dates: 9/30/87 - 9/29/91

- 4) American Cyanamid Company  
Multidose FLT Study  
PI: Charles W. Flexner  
JCM Effort: 1%  
Dates: 3/1/91 - 2/29/92  
Annual Direct Costs: \$189,752
- 5) NIAID AI - 27668  
AIDS Clinical Trial Unit  
PI John Bartlett  
JCM Effort: 10%  
Dates: 6/30/86 - 12/31/2000  
Annual Direct Costs: \$1,271,543
- 6) National Multiple Sclerosis Society, Maryland Chapter  
Multiple Sclerosis Autonomic Control Program  
PI: Justin C. McArthur  
JCM Effort: 0%  
Dates: 1/1/91 - 12/31/91  
Annual Direct Costs: \$11,750
- 7) NINDS P01 NS 26643  
Research Centers for AIDS Dementia and Other Retrovirus-Associated Neurological Disorders  
PI: Richard T. Johnson (Project leader: Justin McArthur)  
JCM Effort: 20%  
Dates: 7/1/88 - 6/30/93  
Annual Direct Costs: \$973,613 (7/1/92-6/30/93)
- 8) Hoescht-Roussel Pharmaceuticals, Inc.  
Pentoxifylline for HIV dementia (Phase I/II study of pentoxifylline-TNF antagonist)  
PI: Justin McArthur  
Effort: 5%  
Dates: 4/01/93 - 4/01/94  
Annual Direct Costs: \$88,000
- 9) NCI R01 CA 55529  
EBV as a Tumor Marker in AIDS CNS Lymphoma (to identify HIV positive individuals with primary CNS lymphoma and use CSF PCR techniques for diagnosis)  
PI: Richard Ambinder  
JCM Effort: 10%  
Dates: 7/1/91 - 6/30/94  
Annual Direct Costs: \$141,644
- 10) NIAID AI-35042  
Multicenter AIDS Cohort Study  
PI: Alfred Saah  
JCM Effort: 20%  
Dates: 9/30/91 - 3/31/95  
Annual Direct Costs: \$1,663,638 (4/1/94 - 3/31/95)  
Annual Direct Costs for Dr. McArthur's component: \$131,932 (4/1/94 - 3/31/95)
- 11) Genentech, Inc.  
Skin Biopsy Project (to develop skin punch biopsy as a quantitative instrument to assess cutaneous innervation in normal individuals)  
PI: Justin McArthur  
Effort: 10%  
Dates: 2/1/94 - 6/30/95  
Annual Direct Costs: \$176,491

- 12) Peptech, Inc.  
Phase II Study of Peptide T in HIV-associated Dementia  
Co-PI's: Justin McArthur and Ola Selnes  
JCM Effort: 10%  
Dates: 11/1/94 - 12/31/95  
Annual Direct Costs: \$172,357
  
- 13) (A3095) WW Smith Charitable Foundation  
Epidermal Denervation in HIV-associated Sensory Neuropathy  
PI: Justin McArthur  
JCM Effort: 5%  
Dates: 10/1/95 - 9/30/96  
Annual Direct Costs: \$79,091
  
- 14) 02414-19-RG American Foundation for AIDS Research  
Effects of denervation on HIV and cytokine production in Langerhans cells  
PI: Justin McArthur  
JCM Effort: 5%  
Dates: 9/1/95 - 2/28/97  
Annual Direct Costs: \$78,000
  
- 15) Charles A. Dana Foundation  
Dana Consortium for the Study of AIDS Dementia (to develop a cohort of individuals at high risk for dementia and initiate pilot studies of novel therapeutic agents)  
PI: Justin McArthur  
Effort: 10%  
Dates: 1/1/94 -6/30/97  
Annual Direct Costs: \$157,000
  
- 16) Glaxo-Wellcome, Inc. M970362  
Randomized, double-blind, placebo-controlled tolerability, safety, and efficacy studies of 1592U89 in HIV dementia: Placebo-controlled phase/Open label phase  
PI: Ned Sacktor  
JCM effort: no salary support  
Dates: 8/1/96 - 1/31/98  
Annual Direct Costs: \$173,659
  
- 17) Blaustein Pain Research Committee  
Epidermal denervation in painful sensory neuropathies  
PI: Justin McArthur  
JCM effort: no salary support  
Dates: 7/1/97 - 6/30/98  
Annual Direct Costs \$25,000
  
- 18) NINDS NS-26643  
Research Centers for AIDS Dementia  
PI: Justin C. McArthur  
JCM Effort: 17%  
Dates: 7/1/93 - 6/30/98  
Annual Direct Costs: \$735,171 (7/1/97 - 6/30/98)
  
- 19) Social & Scientific Systems  
Examination of Cutaneous Innervation in ACTG 291/Substudy ACTG 860  
PI: Justin McArthur  
JCM effort: no salary support  
Dates: 9/1/96 - 8/31/98  
Annual Direct Costs: \$25,600

- 20) Glaxo Wellcome, Inc.  
 Relationship of HIV load and CNS immune activation in patients with neurological disease:  
 correlation with CNS penetration of antiretrovirals  
 PI: Justin McArthur  
 JCM effort: no salary support  
 Dates: 7/28/97-9/1/98  
 Annual Direct Costs: \$42,322
- 21) NINDS NS-35736  
 HIV in the brain: Mode of entry, genotype and dementia  
 PI: Suzanne Gartner  
 JCM effort: 10%  
 Dates: 8/3/96 - 4/30/00  
 Annual Direct Costs: \$178,418
- 22) NIAID NO1-AI-35042  
 Multicenter AIDS Cohort Study  
 (Neuropsychological Component Director: Justin McArthur; to develop neurological and  
 neuropsychological testing in a natural history study of HIV infection)  
 PI: Joseph Margolick  
 JCM Effort: 5%  
 Dates: 4/1/95 -3/31/99  
 Annual Direct Costs: \$781,576 (\$61,184 Dr. McArthur's component)
- 23) Glaxo-Wellcome, Inc.  
 Lamotrigine in the Treatment of Painful HIV-associated Sensory Neuropathy  
 PI: Justin McArthur  
 Dates: 11/22/96 - 12/31/00  
 Annual Direct Costs: \$43,500
- 24) Genentech, Inc.  
 Epidermal denervation in HIV-associated painful sensory neuropathies. Examination of  
 cutaneous nerve fiber density in participants in ACTG 291.  
 PI: Justin McArthur  
 Dates: 3/1/98 - 2/29/00  
 Annual Direct Costs: \$177,750
- 25) Hind Health Care  
 A double-blind, placebo-controlled study of 5% lidocaine (Lidoderm) gel for painful peripheral  
 neuropathy in HIV infection  
 PI: Justin McArthur  
 Dates: 4/30/99  
 Annual Direct Costs:
- 26) Roxane Laboratories  
 Roxane HIV Neuropathy Scholars Program  
 PI: Justin McArthur  
 Dates: 8/1/96 - 12/31/00  
 Annual Direct Costs: \$50,000
- 27) NINDS NS-26643  
 Research Centers for AIDS Dementia  
 PI: Justin C. McArthur  
 JCM Effort: 25%  
 Dates: 7/1/98 - 6/30/01  
 Annual Direct Costs: \$440,328 (7/1/98 - 6/30/99)

- 28) NIAID AI 27668  
AIDS Clinical Trial Unit (to develop clinical trials for HIV-associated neurological diseases)  
PI: John Bartlett, Charles Flexner  
JCM Effort: 10%  
Dates: 1/1/96 - 12/31/00  
Annual Direct Costs: \$1,271,543
- 29) Vertex Pharmaceuticals  
VX00-853-105: A Double blind, randomized, placebo-controlled, eight week pharmacokinetic/  
pharmacodynamic study of timcodar dimeslyate in healthy volunteers following topic application  
of capsaicin.  
PI: Justin McArthur  
JCM Effort: 3%  
Dates: 12/1/2000 - 11/30/01  
Annual direct costs: \$408,027
- 30) NINDS NS-32228  
Rates of epidermal regeneration after capsaicin denervation in ddX toxic sensory neuropathy  
PI: Clifford (McArthur, substudy)  
JCM effort: 3%  
Dates: 1/10/01 - 1/9/02  
Annual direct costs: \$76,000
- 31) NIMH MH-61438  
CNS Metabolic Correlates of HIV Dementia by MRS Imaging  
PI: Martin Pomper  
JCM Effort: 4%  
Dates: 9/28/99-5/31/02  
Annual direct costs: \$264,516
- 32) Baltimore City Health Department Ryan White Title I  
Primary Care  
PI: John Bartlett  
JCM Effort: 10%  
Dates: 3/1/02 - 2/28/03  
Annual Direct Costs: \$504,696
- 33) NINDS NS 26643  
Research Center for AIDS Dementia  
PI: McArthur, Justin  
JCM effort: 5%  
Dates: 7/1/01 - 6/30/03  
Annual direct costs: \$100,000 (supplemental bridging funds)
- 34) NIH/NIAID AI-35042  
Multicenter AIDS Cohort Study  
PI: Margolick, Joseph  
JCM effort: 4%  
Dates: 4/1/99 - 3/31/2004  
Annual direct costs: \$1,175,193 (\$70,388 Dr. McArthur's component)
- 35) RW Johnson Pharmaceutical Institute Topiramate NP-006  
A double blind placebo controlled study to evaluate the effect of Topiramate vs. placebo in a  
capsaicin nerve injury model  
PI: Polydefkis, Michael  
JCM effort: 2%  
Dates: 11/26/01 – 4/30/04  
Annual direct costs: \$928,791

- 36) NINDS NS36519  
 Neurocognitive function, viral load and surrogate markers  
 PI: Leon Epstein (University of Rochester)  
 Project 2. (McArthur, PI) will focus on the prognostic significance of CSF HIV levels for neurologic decline, and examine the relationship between HIV levels and markers of immune activation in plasma, CSF and brain.  
 Core B (McArthur, PI). Assays of HIV load (NASBA) and for markers of immune activation for all three projects will be centralized at Johns Hopkins.  
 JCM effort: 10%  
 Dates: 2/1/98 - 1/31/2004  
 Annual Direct Costs: \$921,674 (Dr. McArthur's projects: Project 2: \$96,414; Core B \$55,662)
- 37) NINDS 1 PO1 NS 32228  
 Neurologic AIDS Research Consortium (to develop a consortium of 16 sites within the AIDS Clinical Trials Group dedicated to HIV neurological clinical trials)  
 PI: David Clifford  
 Dates: 12/1/96 - 7/31/04  
 Annual Direct Costs: \$12,400 (base contract, additional per patient costs)
- 38) RW Johnson Pharmaceutical Institute Topiramate NP-006  
 A double blind placebo controlled study to evaluate the effect of Topiramate vs. placebo in a capsaicin nerve injury model  
 PI: Polydefkis, Michael  
 JCM effort: 2%  
 Dates: 11/26/01 – 4/30/04  
 Annual direct costs: \$928,791
- 39) NIAID AI-35042  
 Multicenter AIDS Cohort Study  
 PI: Joseph Margolick  
 JCM effort: 4%  
 Dates: 4/1/99 - 3/31/2004  
 Annual direct costs: \$1,175,193 (\$70,388 Dr. McArthur's component)
- 40) Neurogesx (C107 study)  
 A Randomized, Double-Blind, Controlled Dose Finding Study of NGX-4010 for the Treatment of Painful HIV-Associated Distal Symmetrical Polyneuropathy.  
 PI: McArthur, Justin  
 JCM effort: 1%  
 Dates: 06/01/03-9/30/04  
 Annual direct costs: \$58,400
- 41) R01 DA014098-01A2  
 Cognitive consequences of endocrine dysfunction in IDU  
 PI: Dobs, Adrian  
 JCM effort: 5%  
 Dates: 6/15/2003 – 5/31/2008 (JCM support through 6/30/2005)  
 Annual direct costs: \$ 250,000
- 42) C0603 (McArthur, Justin) Biotechnology General Corp (Savient)  
 A double blind, randomized, placebo-controlled, multicenter Phase II clinical trial to study the safety, tolerability, and efficacy of Prosaptide™ for the relief of neuropathic pain associated with HIV.  
 JCM effort: 1%  
 Dates: 3/19/2003-6/30/2005  
 Annual direct costs: \$106,000

- 43) NeurogesX  
A contract for processing skin biopsies to assess cutaneous innervation in a dose finding study of a new drug for HIV-associated neuropathy.  
PI: McArthur, Justin  
JCM effort 1%  
Dates: 5/21/03-05/20/05  
Annual direct costs: \$6720
- 44) (C107 study) Neurogesx  
A Randomized, Double-Blind, Controlled Dose Finding Study of NGX-4010 for the Treatment of Painful HIV-Associated Distal Symmetrical Polyneuropathy.  
PI: McArthur, Justin  
JCM effort: 1%  
Dates: 06/01/03-01/31/06  
Annual direct costs: \$100,156
- 46) NIMH R01 MH067831  
Viral/Cell Determinants of HIV Drug Resistance in CNS  
PI: Gartner, Suzanne  
JCM effort: 10%  
Dates: 7/07/03-4/30/08  
Annual direct costs: \$250,000
- 47) NINDS RO1 NS44807  
HIV-sensory neuropathies: risk factors, immunopathology  
PI: McArthur, Justin  
JCM effort: 18%  
Dates: 7/19/02 - 5/31/07  
Annual direct costs: \$327,740
- 48) NIAID RO1 AI057007  
Tissue and Cell Reservoirs for HIV  
PI: Gartner, Suzanne  
JCM effort: 5%  
Dates: 7/15/2003 – 12/31/2007  
Annual direct costs: \$188,412 (6 months)
- 49) Pfizer  
A Randomized, Double-Blind, Placebo Controlled, Parallel-Group, Multi-center Trial of Pregabalin versus Placebo in the Treatment of Neuropathic Pain associated with HIV Neuropathy  
PI: Anita Venkataramana  
JCM effort: 1%  
Dates: 02/01/06-01/31/07  
Annual direct costs: \$122,385
- 51) NINDS NS43011 Immunopathogenesis of HIV Neurological Disorders  
Dr. McArthur's section: HIV Sensory Neuropathy: Age, Risk Factors, Immunopathology  
PI: Kraiselburd, UPR, (McArthur, JHU)  
JCM effort: 20%  
Dates: 9/30/2001-7/31/2006  
Annual direct costs: \$865,533 \$108,932 (Dr. McArthur's section)
- 52) PO1 AI 056297 (Nath, Avindra)  
Immunophilin ligands for HIV dementia and neuropathy  
PI: Nath, Avindra (JCM: PI Project 5)  
JCM effort: 15%  
Dates: 7/1/2003 – 6/30/2007  
Annual direct costs:

- 53) NINDS RO1 NS49465  
 Predicting progression of NeuroAIDS  
 PI: McArthur, Justin  
 JCM Effort: 10%  
 Dates: 4/1/2004 – 2/29/2009  
 Annual Direct Costs: \$404,509
- 54) NS-32228  
 Neurologic AIDS Research Consortium  
 PI: Clifford, David)  
 JCM effort: 5%  
 Dates: 8/1/03-7/31/09  
 Annual Direct Costs: \$35,000 (Leadership Award)
- 55) N01 MH 22005  
 Long term effects of potent antiretroviral therapy on HIV-induced nervous system disease (CHARTER)  
 PI: Grant, Igor; Site PI: McArthur, Justin  
 JCM Effort: 3%  
 Dates: 3/12/03 – 8/31/10  
 Annual Direct Costs: \$262,240
- 56) 111JC101  
 A Randomized, Rater-Blinded Study to Explore the Effect of Mefloquine in Subjects with Progressive Multifocal Leukoencephalopathy (PML)  
 PI: Justin McArthur  
 JCM Effort: 1%  
 Dates: 12/01/08-12/30/10  
 Annual Direct Costs: \$157,672

## EDUCATIONAL ACTIVITIES

### Teaching

#### Classroom instruction

- 1984 - Annual participation in Medical Student Neuropathology Course  
 (Course Director 1995-2005)
- 1984 - Annual Participation in Neurology Clinical Skills Course
- 2008- Faculty, NINDS Course in Clinical Trials
- 2008- ANA Clinical and Translational Research Course Director

#### Clinical instruction

- 1988-95 Director, Neurology Medical Student Clerkship
- 1988-95 Coordinator, AIDS Neuropsychiatry Rounds (weekly conference)
- 2010- Coordinator, Clinical Neuroscience Seminar (weekly conference)

#### CME Instruction - Lectures: (selected)

- "Neurology of AIDS." Topics in Clinical Medicine, Johns Hopkins Hospital, May 17, 1986.
- "Neurological complications of AIDS." National Conference for Practitioners, Baltimore, MD, 1986, 1987, 1988.
- "Neuropathies and myelopathies associated with HIV infection." American Academy of Neurology. Peripheral Nerve Course. New York, NY; April 6, 1987.
- "Neuropathies and myelopathies associated with HIV infection." American Academy of Neurology.

- Peripheral Nerve Course. Cincinnati, OH; April, 1988.
- "Overview of the Neurological Manifestations of HIV Infection." American Academy of Neurology. Neurological Manifestations of AIDS Course, Cincinnati, OH; April, 1988.
- "Overview of the Neurological Manifestations of HIV Infection." American Academy of Neurology. Neurological Manifestations of AIDS Course, Chicago, IL; April, 1989.
- "Retroviruses and Human Disease. Review and Update in Neurobiology for Neurosurgeons and Neurologists." Marine Biological Laboratory, Woods Hole, MA, November 3, 1988.
- "Neurological Manifestations of HIV Infection." AIDS and the Primary Care Practitioner, Baltimore, October 5, 1989.
- "Central Nervous System Disorders in HIV Carriers." Wellcome Foundation International Seminar Series: Neurological Aspects of HIV Infection. Amsterdam, December 2, 1989.
- "Neurological Manifestations of HIV Infection." American Academy of Neurology, Infectious Disease Course. Miami, April 1990.
- "Neurological Manifestations of HIV Infection." AIDS and the Primary Care Practitioner. Baltimore, November 7, 1990.
- "Neurological Complications of HIV Infection." Neurology for the Primary Practitioner. Baltimore, November 17, 1990.
- "Neurologic Manifestations of HIV Disease." Clinical Care of the Patient with HIV Infection, Baltimore, MD, March 21-22, 1991.
- "Neurologic Manifestations of HIV Disease." Clinical Care of the Patient with HIV Infection, Baltimore, MD, March 12-13, 1992.
- "Neurologic Manifestations of HIV Disease." Clinical Care of the Patient with HIV Infection, Baltimore, MD, April 22, 1993.
- "Neurologic Manifestations of HIV Disease." Clinical Care of the Patient with HIV Infection, Baltimore, MD, April 7, 1994.
- "Update on Neurological Aspects of HIV Infection." Jeanes Hospital, Philadelphia, PA, May 11, 1994.
- "Multiple Sclerosis," Saturday Morning Rounds in Medicine. Johns Hopkins Hospital, September 17, 1994.
- "An Approach to Central and Peripheral Neurologic Disease," Management of the HIV-Infected Patient: A Practical Approach for the Primary Care Physician. Center for Bio-medical Communications, Inc. with American Foundation for AIDS Research (AmFAR), New York, March 31, 1995.
- "Management of the Neurological Complications of HIV Infection." Clinical Care of the Patient with HIV Infection. Baltimore, MD, April 6-7, 1995.
- "Neurologic Diseases in HIV." Clinical Care Options for HIV Symposium, Laguna Niguel, CA June 8-11, 1995.
- "Neuropathology of AIDS." Applications of Unbiased Stereology to Neural Systems. Kent Island, MD, October 23-27, 1995.
- "Neurological Manifestations of HIV Infection." American Academy of Neurology, Infections of the Nervous System Course, San Francisco, CA, March 23-30, 1996.
- "An approach to central neurologic disease." Management of the HIV-infected Patient. A Practical Approach for the Primary Care Practitioner. New York, NY, February 16-18, 1996.
- "An approach to peripheral neurologic syndromes." Management of the HIV-infected Patient. A Practical Approach for the Primary Care Practitioner. New York, NY, February 16-18, 1996.
- "Neurologic Manifestations of HIV Disease." Clinical Care of the Patient with HIV Infection, Baltimore, MD, March 21-22, 1996.
- "Neurological Manifestations of HIV Infection." Practical Neurology for the Primary Care Physician, St. Joseph Hospital, Baltimore, MD March 23, 1996
- "Management of Neurological Disorders in HIV Infection." HIV Disease Management Issues: Update 3. Scottsdale, AZ, November 1, 1996.
- "HIV Dementia Screening: Rationale, Interpretation, and Intervention." Fairfax Hospital Health System. Fairfax, VA, February 18, 1997.
- "HIV-associated Dementia: Update and Approach to Therapy." AIDS and the Nervous System Course. American Academy of Neurology, April, 19, 1997.
- "Neurology Complications of HIV Infection: Dementia, Myelopathy, Peripheral Neuropathy." Infections of the Nervous System II Course, American Academy of Neurology, April, 14, 1997.
- "Infections of the Central Nervous System." Specialty Review in Infectious Disease, The National Center

- for Advanced Medical Education, Chicago, September 21-25, 1997.
- "CNS Complications of HIV Infection." Specialty Review in Infectious Disease, The National Center for Advanced Medical Education, Chicago, September 21-25, 1997.
- "The Brain as a Sanctuary in HIV." HIV and the Brain. A Continuing Education Symposium, Scientific Exchange, Inc. Toronto, September 27, 1997.
- "HIV-associated Neurological Disease." Reading Hospital Medical Center, November 17, 1997.
- "New Approaches to the Management of HIV-related Neurologic Disease." Optimal Management of HIV Disease: Clinical Conference VI. Ft. Lauderdale, FL, March 1, 1998.
- "Neurologic Complications of HIV." 8<sup>th</sup> Annual Clinical Care of the Patient with HIV Infection, Baltimore, MD, March 31, 1998.
- "AIDS 1998 and Advances in Therapy". AIDS and the Nervous System Course. American Academy of Neurology, Minneapolis, MN, April 26, 1998.
- "Introduction to HIV-related Opportunistic Processes." AIDS and the Nervous System Course. American Academy of Neurology, Minneapolis, MN, April 26, 1998.
- "Management of HIV Neuropathy." In: Peripheral Neuropathies in HIV Disease Symposium during 12<sup>th</sup> World AIDS Conference, Geneva, July 2, 1998.
- "Nerve Growth Factor for Treatment of HIV Neuropathy." HIV Speakers Forum. Comprehensive Management of HIV Disease, Boca Raton, FL, October 22-24, 1998.
- "AIDS 1999 and Advances in Therapy. AIDS and the Nervous System Course. American Academy of Neurology, Toronto, Canada, April 1999.
- "Introduction to HIV-related Opportunistic Processes." AIDS and the Nervous System Course. American Academy of Neurology, Toronto, Canada, April 1999.
- "Neurological Complications of HIV Infection. Infections of the Nervous System Course. American Academy of Neurology, Toronto, Canada, April 1999.
- "Management of Neuropathic Pain in AIDS" Annual Meeting of American Society of Pain Management Nurses. Washington, DC, April 16, 1999.
- "Central Nervous System Infections." Neurological and Neurosurgical Emergencies: How to Recognize Early Symptoms and Begin Appropriate Workup and Therapy. Johns Hopkins Medicine, Baltimore, June 26, 1999.
- "Progress in the Therapy of Neuro-AIDS" General Clinical Research Center Lecture Series, Johns Hopkins University, Baltimore, July 7, 1999.
- "Neurological Manifestations of AIDS." 17<sup>th</sup> Annual Symposium on Practical Neurology for the Primary Care Physician. St. Joseph Medical Center, Baltimore, March 25, 2000.
- "AIDS 2000: Epidemiology and Therapy" AIDS and the Nervous System Course, American Academy of Neurology, San Diego, May 5, 2000.
- "AIDS 2001: Epidemiology and Therapy" AIDS and the Nervous System Course, American Academy of Neurology, Philadelphia, May 6, 2001.
- "AIDS 2002: Epidemiology and Therapy" AIDS and the Nervous System Course, American Academy of Neurology, Denver, April 19, 2002.
- "Emerging Neurologic Complications of HIV." 6<sup>th</sup> annual Controversies in the Management of the HIV-infected Patient. Weill Medical College of Cornell University, New York, November 7, 2003.
- "Infections of the Nervous System." 14<sup>th</sup> Annual Neurology for the Primary Practitioner, Baltimore, MD, December 6, 2003.
- Junior Faculty Development Course. American Neurological Association. San Diego, September 25, 2005.
- "Neurological Complications of HIV." 16<sup>th</sup> Annual Neurology for the Primary Care Practitioner and Neurology for the Neurologist. Baltimore, MD, December 17, 2005.
- "Viral Encephalitis in the Modern Era." 33<sup>rd</sup> Annual Barrow Symposium: Advancements in Neuroscience for the Practicing Neurosurgeon and Neurologist. Phoenix, February 28, 2006.
- "Neurological Complications – HIV-related Neuropathies." 16<sup>th</sup> Annual Clinical Care of the Patient with HIV Infection. Baltimore, MD, March 14, 2006.
- "An Update on Central Nervous System Infections." 52<sup>nd</sup> Annual Philip A. Tumulty Topics in clinical Medicine. Baltimore, MD May 7, 2006.
- "HIV-associated Sensory Neuropathies", Complications of Immunosuppressives", "Treatment of Neuropathic Pain", "Use of Skin Biopsies", 27<sup>th</sup> Annual Neurology Update Course, Vanderbilt University School of Medicine, Nashville, TN, June 2006.
- "Complexities of Clinical Trials: A Primer for Patients and Physicians." Second International Rare Neuroimmunologic Disorders Symposium, Baltimore, MD July 22, 2006.

- "HIV-Associated Dementia: Update Epidemiology and Therapeutics." Clinical Grand Rounds at the Welch Center, Baltimore, MD, January 10, 2007.
- "The Neurological Manifestations of HIV: The Third Decade", 2007 Bernard J. Alpers Lecture, Thomas Jefferson University Jefferson Medical College, Department of Neurology, Philadelphia, PA, April 19, 2007
- Drug Abuse and Risky Behaviors: The Evolving Dynamics of HIV/AIDS, NIDA, Bethesda, MD, May 8-2007
- "An Update on Central Nervous System Infections", 52<sup>nd</sup> Annual Philip A. Tumulty Topics in Clinical Medicine, Johns Hopkins University, Baltimore, MD, May 7, 2007
- "Low-Grade Cognitive Dysfunction", 17<sup>th</sup> Annual Clinical Care of the Patient with HIV Infection, Johns Hopkins University School of Medicine, Department of Medicine, May 22, 2007
- "HIV-associated neurocognitive disorders: do they really exist?" HIV Center for Clinical and Behavioral Studies, NY State Psychiatric Institute and Columbia University, New York, NY, September 13, 2007
- "Neuropathogenesis in HIV-associated neurocognitive disorders: implications for clinical practice." ICAAC Program, New York, NY September 13, 2007
- "Update on HIV-Associated Neurocognitive Disorders." NIAID Grand Rounds, Bethesda, MD, February 29, 2008
- "NeuroAIDS into the 3<sup>rd</sup> Decade". Cornell University Grand Rounds, New York, NY, July 15, 2008
- "Creating Effective Partnerships between Academia and Industry: Questions to Ask", ANA 1st Annual Summer Course for Clinical and Translational Investigators in Neurology and Neuroscience, August 7, 2008
- "HIV-associated neurocognitive disorders ". Neurology Grand Rounds, Hershey, PA, April 3, 2009
- "Neurophysiology of HIV Infection". HAPS Conference, Baltimore, MD, May 24, 2009.
- "What's new in peripheral neuropathies?", 12<sup>th</sup> International Conference Mechanisms and Treatment of Neuropathic Pain, San Francisco, CA, November 20, 2009.
- "HIV-associated neurocognitive disorders: the hidden epidemic?," Longwood Grand Rounds, Boston, MA March 24, 2010
- "HIV-associated neurocognitive disorders: the hidden epidemic?," Neurology Grand Rounds at Massachusetts General Hospital, Boston, MA, March 25, 2010
- "HIV-associated neurocognitive disorders: the hidden epidemic?," The 25<sup>th</sup> Annual Erwin Levy Lecture, Washington University in St. Louis, MO, March 26, 2010.
- "HIV and the Nervous System: 3 Decades on". Marriott Wardman Park Hotel, 13<sup>th</sup> Annual Clinical Conference for the Ryan White HIV/AIDS Program, Washington, DC, August 24, 2010.
- "HIV-Associated Neurocognitive Disorders: the Hidden Epidemic". Neurology Grand Rounds at University of Kentucky, October 12, 2010.
- "Cognitive Disorders in HIV Infection: The Hidden Epidemic", The Sixth Annual Stanley Aronson, MD Visiting Lectureship, Rhode Island Hospital Department of Neurology, Providence, RI, May 17-18, 2011.

#### Visiting Professorships

- Department of Neurology, Hospital of the University of Pennsylvania - May 30, 1991
- Department of Neurology, Hospital of the University of Pennsylvania - May 12, 1994
- Department of Neurology, Mt. Sinai School of Medicine - April 12, 1995
- Department of Neurology, University of Massachusetts, November 12, 1996
- Department of Neurology, Mayo Clinic, November 25, 1996
- Department of Human Retrovirology, AMC, University of Amsterdam, April 13-17, 1998
- Department of Neurosciences, University of Alberta, March 11-12, 1999.
- Departments of Infectious Disease and Neurology, Royal Alfred University, Melbourne, Australia, October 9-14, 2000
- Department of Neurology, Emory University School of Medicine, Atlanta, GA, March 16, 2000
- Department of Neurology, College of Medicine at the University of Vermont and Neurology Health Care Service at Fletcher Allen Health Care, April 1, 2004.
- Department of Neurology, Mayo Clinic, April 6-7, 2009

**Mentoring (pre- and post-doctoral)**Advisees

Eric Sipos	Pre-doctoral Research	1989
Immunocytochemical characterization of CSF cells in HIV infection		
William Marks	Pre-doctoral Research	1990
Intracranial mass lesions in AIDS		
Nikki Baumrind, Ph.D.	Post-doctoral Fellowship	1990-92
Characterization of macrophage-mediated damage in HIV CNS infection		
Neil Holland	Pre-doctoral Research	1991
CMV encephalitis in AIDS		
Mauricio Concha, MD	Post-doctoral Fellowship	1991-92
Neuropsychological performance of HIV infected IDU's		
Christopher Power, MD	Post-doctoral Fellowship	1991-93
Clinical and pathological studies of HIV dementia		
Matthew Beldon	Pre-doctoral Research	1992
Clinical pathological studies of vacuolar myelopathy		
Gerald Dal Pan, MD	Post-doctoral Fellowship	1992-94
Clinical trials for HIV neuropathy and dementia; Epidemiology of HIV-associated neurological diseases		
Bruce McCarthy	Pre-doctoral Research	1993
Skin biopsy in peripheral nerve disease		
Dyan Hes	Pre-doctoral Research	1993
Clinical studies of HIV dementia		
Ponni Subbiah, MD	Post-doctoral Fellowship	1993-94
Stereological quantitation of neuronal numbers in HIV dementia		
Andrew Blum, MD, Ph.D.	Post-doctoral Fellowship	1993-94
ddC toxic neuropathy: Risk factors and natural history		
Sam Mir	Undergraduate Research	1994
Immunocytochemistry and tissue sectioning in cutaneous nerve studies		
Kathryn Crystal	Pre-doctoral Research	1994-95
Stereological quantitation of epidermal nerve fibers		
Kazim Sheikh, MBBS	Post-doctoral Fellowship	1994-
Complement activation in HIV tissue		
Femke Bouwman	Pre-doctoral	1996
Variation in clinical progression of HIV-associated dementia (Young Investigators Award - International AIDS Conference, Vancouver, 1996) (Gerrit Jan Mulder award for best research of a graduating medical student in Rotterdam 1996)		
Susan Huang	Pre-doctoral	1996
Natural history of progressive multifocal leukoencephalopathy in AIDS		
Phil Feaser	Pre-doctoral	1996
Skin biopsy in sensory neuropathy		
Giuseppe Lauria	Post-doctoral	1997
Skin biopsy in sensory neuropathy		
David Wolk	Pre-doctoral	1997
Diagnostic utility of thallium SPECT		
Saptarsi Haldar	Pre-doctoral	1997
Natural history of progressive multifocal leukoencephalopathy in AIDS		
Elizabeth Childs	Pre-doctoral	1997
Plasma viral load and CD4 lymphocytes as predictive markers for HIV-associated dementia		
David Herman	Post-doctoral	1998

	Correlation between unmyelinated nerve fiber density in skin and sural nerve biopsies.	
Rachel Shapiro	Pre-doctoral	1998
	Treatment response for HIV associated sensory neuropathy	
Bindu Rajan	Post-doctoral	1999
	Regeneration of human epidermal nerves after axonal injury	
Michael Polydefkis	Post-doctoral	1999-2000
	Subclinical sensory neuropathy in late onset restless leg syndrome	
	Regeneration of human epidermal nerves after axonal injury	
	K23: Human axonal regeneration in diabetic neuropathy	2001-2006
Henraya Davis	Post-doctoral	2000-2001
	Neuropsychological dysfunction and medical adherence	
Adriana Andrade	Post-doctoral	2000-2001
	Medical adherence in HIV infection (intervention trial)	
	Henry Christian Award Winner, American Foundation for Medical Research	
Ann Mwirigi	Pre-doctoral	2001
	Treatment trials for HIV sensory neuropathy	
Carolyn McCue	Pre-doctoral	2001
	Medication adherence studies in HIV infection	
Alexandra Cappiello	Pre-doctoral	2001
	Microarray analysis of cutaneous nerves during regeneration	
Lauren Moo	Post-doctoral	2001-2002
Sanjay Keswani	Post-doctoral	2001-2003
	In vitro model of dideoxynucleoside toxicity	
Amy Towfighi	Pre-doctoral	2001
	Soluble Fas in the cerebrospinal fluid is a potential marker for the severity and prognosis of HIV-associated dementia	
Kate Cherry	Post-doctoral	2001
	Epidermal nerve fiber density and mitochondrial DNA in fat with dideoxynucleoside exposure	
David Newman-Toker	Post-doctoral	2002-2007
	K23: Building a New Model for Diagnosis of ED Dizzy Patients	
Anne Austin	Pre-doctoral	2002
	Howard Hughes Scholar	
	A study to evaluate the feasibility of two electronic medication reminder systems as tools to increase medication adherence in HIV-infected patients receiving highly active antiretroviral therapy	
Christopher Gibbons	Post-doctoral (PGY4 resident)	2003
	Epidermal nerve fiber density changes	
Lan Zhou	Post-doctoral (fellow)	2003
	Epidermal nerve fiber density in HIV infection	
Donna Hansel	Post-doctoral (Path resident)	2003
	Laser microdissection of human epidermal reinnervation	
Anita Venkataramana	Post-doctoral	2003-2005
	CHARTER cohort studies: antiretroviral effects in NeuroAIDS	
Katrin Wetzel Hahn	Post-doctoral	2003-2005
	Pathophysiology of HIV-associated neuropathies in vitro in dorsal root ganglia cultures and in skin biopsies with a special focus on the allele for apolipoprotein 4	
Kevin Biglan	Post-doctoral	2003-2005
	Building a New Model for Diagnosis of ED Dizzy Patients	
Diane Thomas	Post-doctoral	2004-
	HIV/Diabetic peripheral neuropathies	
Jason Lee	Pre-doctoral	2006
	OCT in HIV infection	
Lynn Wachtmann	Pre-doctoral	2006
	Platelet count as marker of HIV dementia (MPH Capstone project)	
Paul Nyquist	Post-doctoral	2006
	Genetic polymorphisms in stroke (K23 to be submitted 2006)	

Catherine Christie	Pre-doctoral	2006
Epidemiological studies in NeuroAIDS (MPH Capstone project)		
Dean Wong		2007
Laura E. Baldassari	Pre-doctoral	2008
A clinical prediction model for progression from HIV-associated minor cognitive-motor disorder to HIV-dementia.		
Yuan-Chun Hsiao	Pre-doctoral	2009-2010
The evaluation matrix metalloproteinase (MMP 1 and 7) as predictors of incident HIV in a cohort with Advanced HIV infection		

Training Grant Participation

- Clinical Training in HIV
  - PI: Dr. Richard Chaisson
  - Dates: 9/30/92 - 8/31/02
- Neuromuscular Training Grant
  - PI: Daniel Drachman
  - Dates: 7/1/93 to 6/30/04
- Molecular Pathogenesis and AIDS Related CNS Disease
  - PI: Janice Clements
  - Dates: 07/01/01 - 6/30/06

**Editorial Activities**

Editorial Board

- The Journal of Neuro-AIDS (1998-2002)
- Journal of Neurovirology (1997- )
- Moore HIV Report (1998- )
- The AIDS Reader (1998-2005)
- Virology 2001-2004

Journal peer review activities:

- |                                                 |                                       |
|-------------------------------------------------|---------------------------------------|
| Neurology                                       | American Journal of Medicine          |
| Annals of Neurology                             | Medicine                              |
| Journal Neurology, Neurosurgery and Psychiatry  | Archives of Neurology                 |
| Journal of Neurology                            | Pediatrics                            |
| Journal of the Neurological Sciences            | AIDS Research and Human Retroviruses  |
| AIDS                                            | Canadian Foundation for AIDS Research |
| Journal of Acquired Immune Deficiency Syndromes | Science                               |
| New England Journal of Medicine                 | Muscle & Nerve                        |

**CLINICAL ACTIVITIES**

**Certification**

Medical Licensure

Maryland D0027666

Board certification

- 1984 Diplomat in Internal Medicine, American Board of Internal Medicine.
- 1986 Diplomat in Neurology, American Board of Neurology and Psychiatry.

## Service Responsibilities

Neurology Service, Attending, one month per year  
 Neurology Outpatient clinics, two half days per week

## ORGANIZATIONAL ACTIVITIES

### Institutional Administrative Appointments:

1988-93 Committee on Appointments and Promotions, Department of Neurology  
 1988-93 Scientific Advisory Subcommittee of the Interdisciplinary Committee on NMR  
 1988-90 HIV Infection Clinical Studies Review Committee  
 1990-95 Clinical Research Centers Advisory Committee  
 1992-95 Student Promotions Committee  
 1993 Faculty Compensation Ad Hoc Committee, School of Medicine  
 1994 Neuroscience Critical Path Departmental Steering Committee  
 1995-2005 Joint Committee on House Staff and Postdoctoral Programs  
 1996-98 AIDS Malignancies Program Advisory Committee  
 1997-99 Radiology Advisory Committee  
 1998 Search Committee for Director, Anesthesia and Critical Care Medicine  
 1998 Search Committee Chairman for Director, Neurologic Critical Care Unit  
 1998-present Department of Neurology Executive Leadership Committee  
 2000-2005 Professorial Promotions Committee  
 2000 Search Committee for Chairman, Department of Internal Medicine  
 2004-present Medical Scientist Training Program Steering Committee (MD-PhD)  
 2008- Agenda Committee for the Advisory Board of the Medical Faculty, School of Medicine  
 2008- Budget Committee, Clinical Practice Association  
 2008-2010 AUPN Executive Committee  
 2009- Committee on the Promotion of the Academic Clinician  
 2009- Committee on Clinical Innovator  
 2009-2012 Clinical Practice Association Board of Governors  
 2010- Clinical Practice Association Budget, Finance & and Planning Committee Chair  
 2010- Institute for clinical and Translational Research, Internal Advisory Board Member

### Professional Societies

1983- American Academy of Neurology  
 Career Development Committee 2003-2006  
 Council member 2005-  
 1984-2000 Maryland Neurological Society  
 1991- American Neurological Association (Councillor 2005-2008)  
 1998- International Society for Neurovirology  
 1999- Association for Patient-Oriented Research (founding member)  
 2001- Association of University Professors of Neurology (1<sup>st</sup> Vice-President 2008- )  
 2004- American Society for Experimental NeuroTherapeutics (ASENT)  
 2010- Fellow, American Academy of Neurology

### Conference Organizer, Session Chair

1987-92 Neurology Coordinator, Annual Topics in Medicine Course (Department of Medicine)  
 1989 Co-Chairman, Scientific Program Committee, Neurological & Neuropsychological Complications of HIV Infection. A Satellite Conference Prior to the V International Conference on AIDS, Quebec City, May 31 - June 3, 1989  
 1990 Scientific Program Committee, Neurological & Neuropsychological Complications of HIV

- Infection. A Satellite Conference Prior to the VI International Conference on AIDS, Monterrey, June 16 - 19, 1990.
- 1991 Scientific Program Committee, Neuroscience of HIV Infection: Basic Science and Clinical Frontiers, A Satellite Conference Prior to the VII International conference on AIDS, Padova, Italy, June 12 - 15, 1991.
- 1991 International Scientific Committee, First International Conference on the Biopsychosocial Aspects of HIV Infection, September 22-25, 1991.
- 1992 International Scientific Program Committee, VIII International Conference on AIDS/III STD World Conference, Amsterdam, The Netherlands, July 19 - 24, 1992.
- 1992 Scientific Program Committee, IV International Conference on Neuroscience of HIV Infection: Basic and Clinical Frontiers, Amsterdam, The Netherlands, July 14, 17, 1992.
- 1993 Scientific Program Committee, Neuroscience of HIV Infection: Basic and Clinical Frontiers 1993, Vienna, Austria, June 2-5, 1993.
- 1994 International Scientific Committee, Second International Conference on the Biopsychosocial Aspects of HIV Infection, July 7-10, 1994.
- 1996 NINDS-sponsored HIV Neurologic Therapies Workshop, June 1996, Baltimore MD
- 1998 Course Director, AIDS and the Nervous System I and II. American Academy of Neurology Annual Meeting, Minneapolis, MN, April 26, 1998.
- 1998 International Organizing Committee, Neuroscience of HIV Infection: Basic and Clinical Frontiers, Chicago, IL, June 3-6, 1998
- 1998 Program Chairman. Peripheral Neuropathies in HIV Disease Symposium during 12<sup>th</sup> World AIDS Conference, Geneva, July 2, 1998.
- 1999 Course Director, AIDS and the Nervous System I and II. American Academy of Neurology Annual Meeting, Toronto, Canada, April 1999.
- 1999 Course Director, Neurological and Neurosurgical Emergencies. Johns Hopkins Medicine, Baltimore, June 25-26, 1999.
- 2000 Course Director, AIDS and the Nervous System, American Academy of Neurology Annual Meeting, San Diego, May 5, 2000.
- 2000 Scientific Organizing Committee, Neuroscience of HIV Infection, Edinburgh, June 22-25, 2000.
- 2000 Workshop: Correlation between disease progression and astrocyte apoptosis in HIV-associated dementia. Neuroscience of HIV Infection, Edinburgh, June 22-25, 2000.
- 2000 Workshop: HIV dementia persists despite highly active antiretroviral therapy (HAART) Neuroscience of HIV Infection, Edinburgh, June 22-25, 2000.
- 2001 Course Director, AIDS and the Nervous System, American Academy of Neurology Annual Meeting, Philadelphia, May, 2001
- 2001 American Academy of HIV Medicine, Core Curriculum Committee
- 2002 International Scientific Board, Neuroscience of HIV, Dusseldorf, Germany
- 2004 Mentor, NINDS/ANA Career Development Symposium, Toronto, Canada, October 2-3, 2004

### Advisory Committees, Review Groups

- 1985-88 Professional Advisory Committee, Maryland Chapter National Multiple Sclerosis Society
- 1988-90 AIDS Task Force, American Academy of Neurology
- 1994-94 AIDS Clinical Drug Development Committee (ACDDC), Food and Drug Administration
- 1986- Neuropsychology Working Group, Multicenter AIDS Cohort Study  
Chairman (1986-1998)
- 1988- Scientific Advisory Committee, American Foundation for AIDS Research
- 1990- Infectious Disease Task Force, American Academy of Neurology
- 1991- AIDS Clinical Trial Group (ACTG), Neurology Scientific Committee  
Chairman (1994-96), Vice-Chairman (1992-1994)
- 1992- Scientific Advisory Committee, HIV Neurobehavioral Research Center, University of California, San Diego
- 1995- American Neurological Association. Long-range Planning Committee (Research)

2001	Association of University Professors of Neurology Long Range Planning Retreat (March 19, 2001, Chicago)
2001	Performance and Safety Monitoring Board, PET and MRI Imaging of Persistent Lyme Encephalopathy (NINDS)
2002-2004	American Neurological Association Scientific Program Committee
2002-2004	Association of University Professors of Neurology, 2 <sup>nd</sup> Vice President
2004	United Council for Neurologic Subspecialties Certification Council
2004	Study Section, NeuroAIDS Studies, ZNS1 SRB-A (15), April 5, 2004
2004-	American Society for Experimental NeuroTherapeutics (ASENT)
2004-2009	External Advisory Committee member, Department of Neurology Training Grant (T32 pending) University of Washington School of Medicine
2005-	American Neurological Association, Council
2008-	Scientific Advisory Board, Landenberg Foundation
2011	Mentoring Networks to Enhance Diversity, Study Section, 2011/05 ZMH1 ERB-L(03)S

### Consultantships

1988-89	Advisor to World Health Organization ("Neuropsychiatric manifestations of HIV infection"), Geneva, March 13-17, 1988 and June 1989.
1988	Advisor to President's Commission on AIDS (AIDS and the Workplace), Indianapolis, May 9.
1995	Consultant to U.S. Office of AIDS Research, FY 1997 budget plan
1995	NIH NINDS Board of Scientific Counselors, Dec 3-5, 1995.
2006	FDA Special Advisory Committee (Temporary Consultant) Peripheral and Central Nervous System Drugs Advisory Committee - Tysabri, March 7-8
2006-	Scientific Advisor, Gliamed Inc.
2008-	Scientific Advisor, CNSBio Inc.

### RECOGNITION

#### Awards and Honors:

1977	Charles Forster Cardiology Prize, Guys Hospital.
1977	Certificate, Golding-Bird Obstetrics and Gynecology.
1978	Spastics Society Prize for Pediatrics.
1978	Guys Hospital Annual Dermatology Prize.
1979	Honors in Medicine, University of London.
1991	Elected American Neurological Association
1993	Frank Ford Teaching Award (JHU Annual Teaching Award: Department of Neurology)
1994	Elected Alpha Omega Alpha
1994	Department of Medicine Osler Housestaff Award in recognition of outstanding contributions to Housestaff teaching
1996	Department of Medicine Osler Housestaff Award in recognition of outstanding contributions to Housestaff teaching
1998	Department of Medicine Osler Housestaff Award in recognition of outstanding contributions to housestaff teaching
1999	Department of Medicine Osler Housestaff Award in recognition of outstanding contributions to Housestaff teaching
1999	Selected for School of Medicine, Faculty Leadership Development Program
2001	Professor's Award for Distinction in Teaching in the Clinical Sciences
2002	"Pathogenesis and therapy of HIV-associated neurological diseases." Distinguished Speaker, Department of Medicine Research Seminar Series, University of Texas Health Science Center, San Antonio, March 5, 2002.

2002	Finalist ACGME Parker J. Palmer "Courage to Teach" Award
2003	Department of Medicine Osler Housestaff Award in recognition of outstanding contributions to Housestaff teaching
2010	2010 Diversity Leadership Council (DLC) Diversity Recognition Award, Johns Hopkins University, May 19, 2010
2011	Best Doctors in America

### Invited Talks, Panels

- "Neurological Complications of AIDS." Grand Rounds, Christiana Hospital, Wilmington, Delaware, November 1985.
- "Neurological Complications of AIDS." Maryland Neurological Society, January 1986.
- "Neurological Complications of AIDS." National Conference of Practitioners, Washington D.C. March 8, 1986.
- "AIDS related dementia." Neurology Grand Rounds. Stanford University California, June 18, 1986.
- "Neurological Aspects of HIV Infection." National Board of Occupational Safety and Health Workshop, Stockholm, Sweden, June 1988.
- "Neuropsychiatric Aspects of AIDS." International Conference, London, England, September, 23, 1988.
- "Neurologic Aspects of HIV Infection." Grand Rounds. Naval Hospital, Bethesda, MD. November 16, 1988.
- "Dementia and Related Neurological Complications of AIDS." Basic Approaches to Common Neurological Disorders. Jefferson Medical College, Philadelphia, February 24, 1989.
- "Neurological Complications of HIV Infection." American Academy of Neurosurgeons Annual Meeting, April 1-4, 1989.
- "AIDS-related Dementia." Columbia University School of Law Symposium, Neuropsychological Impairment of HIV Infected Persons: Implications for the Workplace, April 15, 1989.
- "Primary HIV Infection of the Nervous System." Neurological and Neuropsychological Complications of HIV, Quebec City, June 1, 1989.
- "Neurological Manifestations of HIV Infection." University of Maryland Neurology Grand Rounds, November 3, 1989.
- "Neurological Manifestations of HIV Infection." Medical College of Ohio Symposium "The Clinical Care and Management of the HIV-infected Patient." August 9, 1990.
- "Neurological Manifestations of HIV Infection." International Congress on AIDS, Chulabhorn Research Institute, Bangkok, Thailand, December 17, 1990.
- Visiting Professorship and Grand Rounds. Department of Neurology, Hospital of University of Pennsylvania, May 30, 1991.
- "Toxoplasmosis." Neuroscience of HIV Infection: Basic Science and Clinical Frontiers, Padova, Italy, June 12-15, 1991.
- "AIDS and Dementia." Knight Center for Specialized Journalism. Symposium: "The Brain." Baltimore, MD, October 23, 1991.
- "Management of Neurological Complications of HIV Infection" Management of HIV Disease: Current Clinical Concepts. Bethesda, MD, November 22, 1991.
- "HIV Neurologic Disease: Update on Clinical Manifestations and Pathogenesis of HIV Dementia" VIII International Conference on AIDS, Amsterdam, The Netherlands, July 20-24, 1992.
- "HIV Neurologic Disease: Update on Clinical Manifestations and Pathogenesis of HIV Dementia" FDA Developmental Therapeutics Branch Workshop, Portland ME, July 28-August 1, 1992.
- "HIV Dementia: Incidence and Risk Factors." Association for Research in Nervous and Mental Disease. December 3, 1992.
- "HIV Dementia: Ten Years On." Visiting Professor, University of Pennsylvania, May 12, 1994.
- "HIV Dementia: Ten Years On." Grand Rounds, Johns Hopkins Department of Neurology, May 27, 1994.
- "HIV Dementia: Ten Years On." Grand Rounds, University of Massachusetts, Department of Neurology, June 7, 1994.
- "Neurological Manifestations of HIV Infection," Department of Pathology Grand Rounds, Johns Hopkins Hospital, December 22, 1994.

- "Pathogenesis and Treatment of HIV Dementia." Department of Neurology Grand Rounds, Mt. Sinai Hospital, April 12, 1995.
- "Neurological Manifestations of AIDS." Conference on HIV Infection in the Nervous System, NIDA, Phoenix, AZ, June 1995.
- "Diagnosis and Management of Neurological Complications of AIDS." Grand Rounds, Department of Neurology, Johns Hopkins Hospital, September 7, 1995.
- "Neurological Manifestations of HIV Infection." NINDS Weekly Conference, September 8, 1995.
- "AIDS and New Treatment Strategies." American Electroencephalography Society, Washington, DC, September 10, 1995.
- "Neurological Manifestations of HIV Infection." Department of Neurology Grand Rounds, Walter Reed Army Medical Center, September 13, 1995.
- "AIDS and the Nervous System." Department of Neurology Grand Rounds, University of Maryland Medical Center, February 21, 1996.
- "HIV Dementia: Ten Years on." Neuroscience of HIV Infection. Basic Science and Clinical Frontiers. Paris, France, March 6-9, 1996.
- "CNS Manifestations of AIDS and Neurosurgical Intervention." Grand Rounds, Department of Neurosurgery, Johns Hopkins Hospital, April 17, 1996
- "What Have We Learned about Treatment for HIV Dementia?" NINDS/JHU Neurologic Therapies Workshop, June 17-18, Baltimore, MD, 1996.
- "Epidemiology of NeuroAIDS in adults and children." HIV in the Brain: Pathology and Neurobehavioral Consequences, Office of AIDS, National Institute of Mental Health, Washington, DC, September 4-6, 1996.
- "Neurological Manifestations of AIDS." Grand Rounds, Department of Neurology, University of Massachusetts Medical Center, Worcester MA, November 12, 1996.
- "Pain and Symptom Control in AIDS" Professional Development Course. 15th Annual Scientific Meeting of the American Pain Society, Washington, DC November 14, 1996.
- "Neurological Manifestations of HIV Infection." Grand Rounds, Department of Neurology, Mayo Clinic, November 25, 1996.
- "Skin Biopsy in the Evaluation of Sensory Neuropathies." Grand Rounds, Department of Neurology, Johns Hopkins Hospital, December 9, 1996.
- "Neuro-AIDS." 4th Conference on Retroviruses and Opportunistic Infections. Washington, DC, January 25, 1997.
- "Update on AIDS Neurology." Grand Rounds. Department of Neurosurgery, Johns Hopkins Hospital, April 23, 1997.
- "Neurological Manifestations of HIV Infection" Grand Rounds. Department of Neurology. University of California, San Francisco, April 30, 1997.
- "HIV Dementia." Institute of Human Virology, University of Maryland, Baltimore, August 4, 1997.
- "Neurological Manifestations of HIV Infection." Grand Rounds, Department of Medicine, Northwestern University, Chicago, IL, February 13, 1998.
- "CSF Viral Load and Resistance Compartmentalization." Department of Human Retrovirology, AMC, University of Amsterdam, April 14, 1998.
- "Neurological Manifestations of HIV Infection." Department of Human Retrovirology, AMC, University of Amsterdam, April 15, 1998.
- "HIV-associated Sensory Neuropathy." Department of Neurology, AMC, University of Amsterdam, April 17, 1998.
- "Neurological Manifestations of HIV Infection" Topics in Internal Medicine/Medical Grand Rounds, Johns Hopkins University, Baltimore, May 8, 1998.
- "Trial of Recombinant Human Nerve Growth Factor for HIV-associated Sensory Neuropathy." 12<sup>th</sup> World AIDS Conference, Geneva, July 3, 1998.
- "Neurological Manifestations of HIV Infection." Grand Rounds, University of Kentucky, Department of Neurology, September 10, 1998.
- "Neurological Manifestations of AIDS" Department of Neurology, Neuroradiology, and Neurosurgery Grand Rounds, New York Hospital-Cornell Medical Center, February 10, 1999.
- "Management of Neurological Disorders in AIDS." Department of Infectious Diseases Dinner Seminar, University of Alberta, March 11, 1999.
- "HIV-associated Neurological Disease: An Update on Dementia and Sensory Neuropathy." Department of

- Neurology Grand Rounds, University of Alberta, March 12, 1999.
- "HIV Load and Dementia" NIMH/NINDS Conference: HIV and the Nervous System: Emerging Issues, Washington, DC, April 15, 1999.
- "Neurological Complications of HIV Infection." Department of Neurology Grand Rounds, University of Pennsylvania, Philadelphia, May 6, 1999.
- "Skin biopsy: A Window on Cutaneous Innervation" Strelitz Diabetes Institute, East Virginia Medical School, Norfolk, VA, May 20, 1999.
- "Clinical Features and Pathophysiology of HIV Neurologic Disease." Division of Hematology Grand Rounds, Johns Hopkins University, Baltimore, July 19, 1999.
- "Neurological Manifestations of HIV Infection." Third Brazil Conference-Johns Hopkins University HIV/AIDS, Rio de Janeiro, October 22, 1999.
- "Neurological Manifestations of HIV Infection." Department of Internal Medicine Grand Rounds, Greater Baltimore Medical Center, Baltimore, October 28, 1999.
- "HIV, Dementia, and the Big, Bad Macrophage." Decade of the Brain Plenary Session, American Academy of Neurology, San Diego, May 4, 2000.
- "HIV-related Peripheral Neuropathies and their Treatment." Neuroscience of HIV Infection, Edinburgh, June 22, 2000.
- "HIV-dementia" Royal Alfred University, Melbourne, Australia, October 10, 2000
- "Update on the Neurological Manifestations of AIDS." Royal Alfred University, Melbourne, Australia, October 11, 2000
- "Skin biopsy-A Window on Cutaneous Innervation" Royal Alfred University, Melbourne, Australia, October 11, 2000
- "HIV and the Nervous System. Past, Present, and Future." Ian Thompson Memorial Symposium, Australian Society for HIV Medicine, Melbourne, Australia, October 13, 2000.
- "HIV sensory neuropathy: update on pathogenesis." Grand Rounds, University of Pennsylvania, Center for AIDS Research, January 18, 2001.
- "CNS HIV Infection." Grand Rounds, Johns Hopkins University School of Medicine, Department of Medicine, January 19, 2001.
- "Neurological Manifestations of HIV Infection." New York Academy of Medicine, January 26, 2001.
- "HIV sensory neuropathy: update on pathogenesis." 8th Conference on Retrovirus and Opportunistic Infections Chicago, IL, February 6, 2001.
- "Update on multiple sclerosis." Grand Rounds, Greater Baltimore Medical Center, March 14, 2001.
- "HIV sensory neuropathy: update on pathogenesis." Grand Rounds, Department of Neurology, Emory University School of Medicine, Atlanta, GA, March 16, 2001.
- "HIV dementia: pathophysiology and therapy." VI<sup>th</sup> International Congress of Neuroimmunology, Edinburgh, Scotland, September 6, 2001.
- "Neuro-AIDS: 20 years of progress?" Grand Rounds, Department of Medicine, Columbia University, New York, NY, January 9, 2002.
- "Management of common neurological disorders in AIDS" Grand Rounds, Department of Medicine, University of Texas Health Science Center, San Antonio, March 6, 2002.
- "Neuro-AIDS: 20 years of progress?" Grand Rounds, Department of Neurology, Albert Einstein College of Medicine, New York, May 23, 2002.
- "Neuro-AIDS: New frontiers." 10th Neuroscience of HIV Infection/4th International Neurovirology Conference, Dusseldorf, Germany, June 20, 2002
- "Management of neurological problems in AIDS." 24<sup>th</sup> Western Intermountain Neurological Organization Meeting, Salt Lake City, UT, March 21, 2003
- "Skin biopsy: a new window on neuropathies. 24<sup>th</sup> Western Intermountain Neurological Organization Meeting, Salt Lake City, UT, March 22, 2003
- "Management of the neurological complications of HIV/AIDS" Grand Rounds, UMDMJ-New Jersey Medical School Department of Neurology & Neurosciences, Newark, NJ, May 21, 2003
- "Sensory neuropathies and HIV infection: New Challenges." Plenary lecture "Peripheral Nerve Society, Banff, Canada, July 30, 2003.
- "Sensory neuropathies and HIV infection: New Challenges." Neurology Grand Rounds, Johns Hopkins University, September 4, 2003.

- “Acute meningoencephalitis in chronic HIV infection: Putative CNS escape.” HIV Molecular and Clinical Science Workshop, Baltimore, September 3, 2003.
- “An overview of neurologic complications of HIV.” Neurology Grand Rounds. University of Maryland, Baltimore, October 1, 2003.
- “Resident to fellow.” Successful Transitions in Academic Neurology. Association of University Professors of Neurology, 3<sup>rd</sup> Annual Leadership Course, San Francisco, October 18, 2003.
- “Update on Neuro AIDS.” Neuroscience Grand Rounds, College of Medicine, University of Vermont, April 1, 2004.
- “Update on the CNS complications of HIV/AIDS.” Department of Neurology. Mt. Sinai School of Medicine, New York, NY, November 15, 2004.
- “Building a Career in Clinical Research.” American Society for Experimental NeuroTherapeutics, Washington, DC, March 3, 2005.
- “Management of the neurological complications of AIDS.” Albert Einstein College of Medicine. Neurology Grand Rounds, New York, May 12, 2005.
- “Update on sensory neuropathies.” 13<sup>th</sup> Conference on Retroviruses and Opportunistic Infections. Denver, February 7, 2006.
- “Neurological manifestations of HIV/AIDS” Neurology Grand Rounds, Mercy Medical Center, Baltimore, MD, February 22, 2006.
- “NeuroAIDS and Virology.” National Institute of Drug Abuse Conference. NeuroAIDS, Drug Abuse, and Inflammation: Building a Collaborative Research Agenda. Bethesda, MD, March 23, 2006
- “Neurological Complications of HIV Infection: Diagnosis and Therapy.” Department of Medicine Grand Rounds, Johns Hopkins University School of Medicine, Baltimore, MD, March 24, 2006.
- “HIV-associated sensory neuropathies: an update.” Neurology Grand Rounds, New York University School of Medicine, March 28, 2006.
- “Neurological complications of HIV/AIDS. “ Neurology Grand Rounds, Brigham and Women’s Hospital, Boston, MA, April 12, 2006.
- “HIV-associated sensory neuropathies: Springtime in NerveLand” Neurology Grand Rounds, Massachusetts General Hospital, Boston, MA, April 13, 2006.
- “Present and Future Challenges in HIV-associate Neurocognitive Disorders: Johns Hopkins University, Dept. of Psychiatry Research Seminar, Baltimore, MD, Jan 2, 2007
- “Present and Future Challenges in HIV-associate Neurocognitive Disorders: Johns Hopkins University, Welch Center, Baltimore, MD, Jan 10, 2007
- “Viral Encephalitis in the Modern Era” 33<sup>rd</sup> Annual Barrow Symposium, Advancements in Neurosciences for the Practicing Neurosurgeon and Neurologist, Barrow Neurological Institute, Phoenix, AZ Feb 28, 2007.
- “*Lecture topic forthcoming*” Cephalon-Temple Translational Medicine Colloquium, Philadelphia, PA, March 28, 2007
- “*Lecture topic forthcoming*” The Second HIV Infection and the Central Nervous System: Developed and Resource Limited Settings and the Symposium “Evolving Mechanisms of HIV Neuropathogenesis in the HAART era: Domestic and Global Issues. San Servolo-Venice, Italy, April 14-16, 2007.
- “The Neurological Manifestations of HIV: The Third Decade” 2007 Bernard J. Alpers Lecture at Thomas Jefferson University, Philadelphia, PA, April 19, 2007.
- “An Update On Central Nervous System Infections” 52<sup>nd</sup> Annual Philip A. Tumulty Topics in Clinical Medicine, Johns Hopkins University, Baltimore, MD, May 7, 2007
- ““What’s new in HIV Sensory Neuropathy?” 10<sup>th</sup> International Conference on the Mechanisms and Treatment of Neuropathic Pain. Salt Lake City, UT, November 2, 2007.