

CURRICULUM VITAE

The Johns Hopkins University School of Medicine

Justin Charles McArthur, MBBS, MPH, FAAN, FANA

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DEMOGRAPHIC AND PERSONAL INFORMATION

Current Appointments

Director, Department of Neurology, Johns Hopkins Hospital
Professor of Neurology, Pathology, Medicine, and Epidemiology
John W. Griffin Professor of Neurology, Johns Hopkins University School of Medicine
Director, Johns Hopkins/NIMH Center for Novel Therapeutics of HIV-associated Cognitive Disorders
Joint Appointment, Johns Hopkins University School of Hygiene and Public Health, Department of Epidemiology
Joint Appointment, Department of Pathology
Joint Appointment, Department of Medicine
Co-Director, Cutaneous Nerve Laboratory
Chair, School of Medicine Professorial Promotions Committee

Personal Data

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Education and Training

1974-1979 Guys Hospital Medical School, London, U.K.
1979 House-officer in Surgery, Guys Hospital, London, U.K.
1980 House-officer in Medicine, Lewisham Hospital, London, U.K.
1980-1982 Residency, Internal Medicine, The Johns Hopkins Hospital
1982-1985 Residency, Neurology, The Johns Hopkins Hospital
1984-1985 Chief Resident in Neurology, The Johns Hopkins Hospital
1988 MPH, The Johns Hopkins Bloomberg School of Public Health

Professional Experience

1985-1990 Assistant Professor of Neurology, The Johns Hopkins University
1985-1991 Co-Director, Multiple Sclerosis Comprehensive Care Clinic, The Johns Hopkins University
1988-1995 Director, Neurology Medical Student Clerkship, The Johns Hopkins University
1990-1996 Associate Professor of Neurology, The Johns Hopkins University
1995-2005 Director, Neurology Residency Program, The Johns Hopkins University
2005-2006 Acting Director, Department of Neurology, The Johns Hopkins University
2006-2008 Interim Director, Department of Neurology, The Johns Hopkins University
2008-present Director, Department of Neurology, The Johns Hopkins University

RESEARCH ACTIVITIES

Publications: Peer-reviewed Original Science Research

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,

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28. **McArthur JC**, Griffin JW, Cornblath DR, Griffin DE, Tesoriero T, Kuncel 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.
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 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 β_2 -microglobulin in HIV-1 dementia. *Neurology* 42:1707-1712, 1992.
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 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.
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 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.
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 53. Armstrong M, **McArthur JC**, Zinreich SJ. Radiographic imaging of sinusitis in HIV infection. *Otolaryngol Head Neck Surg* 108:36-43, 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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 79. Glass JD, Fedor H, Wesselingh SL, **McArthur JC**. Immunocytochemical quantitation of human immunodeficiency virus in the brain: Correlations with dementia. *Ann Neurol* 38:755-762, 1995.
 80. Rho MB, Wesselingh S, Glass JD, **McArthur JC**, Choi S, Griffin JW, Tyor WR. A potential role for interferon- γ in the pathogenesis of HIV-associated dementia. *Brain, Behavior, and Immunity* 9:366-377, 1995.
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 84. Blum AS, Dal Pan GJ, Feinberg J, Raines C, Mayjo K, Comblath DR, **McArthur JC**. Low dose zalcitabine (ddC) - related toxic neuropathy: Frequency, natural history, and risk factors. *Neurology* 46:999-1003, 1996.
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91. Hsieh S-T, Choi S, **McArthur JC**, Lin W-M, Griffin JW. Epidermal denervation and its effects on keratinocytes and Langerhans cells. *J Neurocytol* 25:513-524, 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.
17. **McArthur J.** Bell's Palsy: Diagnosis and treatment. Hospital Medicine 26:81-92, 1990.
18. Balakrishnan J, Becker PS, Kumar AJ, Zinreich SJ, **McArthur JC**, Bryan RN: Acquired immunodeficiency syndrome: Correlation of radiologic and pathologic findings in the brain. RadioGraphics 10:201-215, 1990.
19. Griffin JW, **McArthur JC**, Cornblath DR: Peripheral nerve and spinal cord disease in human retrovirus infections. Current Opinion in Neurology and Neurosurgery 3:697-703, 1990.
20. Budka H, Wiley, CA, Kleihues, P, Artigas J, Asbury AK, Cho, E-S, Cornblath DR, Dal Canto MC, DeGirolami U, Dickson D, Epstein LG, Isiri MM, et al. HIV-associated disease of the nervous system: review of nomenclature and proposal for neuropathology-based terminology. Brain Pathol 1:143-152, 1991.
21. Janssen RS, Cornblath DR, Epstein LG, Foa RP, **McArthur JC**, Price RW, Asbury, AK, et al. Nomenclature and research case definitions for neurological manifestations of human immunodeficiency virus type 1 (HIV-1) infection. Report of a working group of the American Academy of Neurology AIDS Task Force. Neurology 41:778-785, 1991.
22. **McArthur JC.** Update on multiple sclerosis. Transactions of the Association of Life Insurance Medical Directors of America 74:111-121, 1991.
23. Dal Pan GJ, **McArthur JC.** Diagnosis and management of sensory neuropathies in HIV infection. AIDS Clinical Care 6:9-16, 1994
24. Coyle PK, Bell WE, Davis LE, Hanley DF, **McArthur JC.** The neurologist and infectious disease. Mancall EL (ed). Continuum Program, American Academy of Neurology, 1993.
25. **McArthur JC.** HIV-associated dementia. In: Gilman S, Goldstein GW, Waxman SG (eds). Neurobase, v.4.1, La Jolla, CA, 1994.
26. **McArthur JC.** CMV-associated neuropathy. In: Gilman S, Goldstein GW, Waxman SG (eds). Neurobase, v.4.1, La Jolla, CA, 1994.
27. **McArthur JC.** Neurologic diseases associated with HIV-1 infection. In: Current Opinion in Infectious Diseases 8:74-84, 1995.
28. **McArthur JC.** Neurological manifestations of AIDS. PRN Notebook, 1:3-11, 1995.
29. Griffin JW, Hsieh S-T, **McArthur JC**, Cornblath DR. Laboratory testing in peripheral nerve disease. Neurologic Clinics 14:119-133, 1996.
30. Dal Pan GJ and **McArthur JC.** Neuroepidemiology of HIV infection. Neurologic Clinics 14:359-382, 1996.
31. **McArthur JC** and Harrison MJG. Cerebral infections in AIDS: Neurosyphilis. Infect Med 14:60, 65-74, 1997.
32. **McArthur JC** and Harrison MJG. Cerebral infections in AIDS: Mycobacterial and other infections. Infect Med 14: 162-168, 1997.
33. **McArthur JC.** NeuroAIDS. Diagnosis and management. Hospital Practice 32:73-97, 1997.
34. **McArthur JC.** Differential diagnosis and clinical management strategies for common central nerve system infections. Insights in HIV Disease Management 6:23-41, 1998.
35. Harrison MJG and **McArthur JC.** Cerebral infections in AIDS: Cryptococcal meningitis. Infect Med 15:396-397, 401-407, 1998.
36. Harrison MJG and **McArthur JC.** Cerebral infection in AIDS: Coccidioidomycosis, histoplasmosis, and other fungal infections. Infect Med 15: 474-478, 1998.

37. McArthur JC. Understanding the measurement of CSF HIV levels. HIV Neurology Newsletter 1:1, 5-8, 1998. Academy of Continuing Education Programs, Beverly Hills, CA.
38. Harrison MJG and **McArthur JC**. Cerebral infections in AIDS: CMV. Infect Med (in press).
39. **McArthur JC**. Neurologic disorders. In: Phair JP and King E (ed). Medscape HIV/AIDS 1999 Annual Update, Medscape, New York, 1999, pp105-117. <http://www.aceponline.com/>
40. Berger JR, Abou-Fayssal NG, Cohen BA, Conant K, DeAngelis LM, DiRocco A, Lanska DJ, **McArthur JC**, Mintz M, Nath A, O'Halloran HS, Post MJD, Ruiz A, Simpson DM. The Neurologic Complications of AIDS. American Academy of Neurology Continuum 6; 2000.
41. Andrade A, **McArthur JC**. Report from the 7th CROI (San Francisco, February 2000): update on neurological manifestations of HIV infection. Hopkins HIV Report 12:3, 2000.
42. **McArthur JC**. Editorial Comment: Neurologic complications in HIV survivors: More vigilance required. The AIDS Reader 11:448-449, 2001.
43. **McArthur, JC**. Report from the 8th CROI: sensory neuropathy in HIV/AIDS. Hopkins HIV Report 13: 2, 2001.
44. **McArthur, J**. Acute neuromyopathy syndrome. Hopkins HIV Report, 14:5, 2002.
45. **McArthur JC** (contributing author). The HIV Medicine Self-Directed Study Guide, 2003 Edition, American Academy of HIV Medicine, AAHIVM, 2003

Book Reviews

1. **McArthur JC**. HIV Neurology, Bruce B (ed), Contemporary Neurology Series, Vol 61, Oxford University Press, 2001. Ann Neurol 51:665-6, 2002.

Inventions, Patents, Copyrights

1. 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.
2. Murinson BB, **McArthur JC**. Medical Device for Treatment of Ulnar Neuropathy. UlnarGuard™ (JHU Ref: 4545)
3. Nath A, Hoke A, **McArthur JC**. Immunophilin ligand treatment of antiretroviral toxic neuropathy (Provisional application number 60/466,650)

Teaching

Classroom Instruction

1984	Annual participation in Medical Student Neuropathology 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

1988-1995	Director, Neurology Medical Student Clerkship
1988-1995	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." 8th 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 12th 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." 17th 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." 6th 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." 14th 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." 16th Annual Neurology for the Primary Care Practitioner and Neurology for the Neurologist. Baltimore, MD, December 17, 2005.

"Viral Encephalitis in the Modern Era." 33rd Annual Barrow Symposium: Advancements in Neuroscience for the Practicing Neurosurgeon and Neurologist. Phoenix, February 28, 2006.

"Neurological Complications – HIV-related Neuropathies." 16th Annual Clinical Care of the Patient with HIV Infection. Baltimore, MD, March 14, 2006.

"An Update on Central Nervous System Infections." 52nd 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", 27th 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", 52nd Annual Philip A. Tumulty Topics in Clinical Medicine, Johns Hopkins University, Baltimore, MD, May 7, 2007
- "Low-Grade Cognitive Dysfunction", 17th 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 3rd 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?", 12th 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 25th 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, 13th 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.
- "Cognitive decline and testing". HIV: Emerging challenges in an on-going epidemic, the Royal Society of Medicine in association with the National Institutes of Health, USA and BASHH. London, UK, September 22-23, 2011.
- "Keynote Address". 5th APSA Northeast Regional Meeting. Temple University, Philadelphia, PA, November 19, 2011.
- "Clinical Trials: Academic Translation and Clinical And Translational Science Awards", The Future of Neuroscience Conference: Neurotranslation: Neurologists and Neuroscientists Defining the Next Generation of CNS Therapies. At the American Academy of Neurology, New Orleans, LA, April 27, 2012.
- "Development of Biomarkers: Progress and Pitfalls." Biomarkers for NeuroAIDS, University of Nebraska, Omaha, NE, June 5, 2012.
- "An academic perspective on the role of biomarkers and surrogate endpoints in analgesic clinical trials and the development of improved analgesic treatments". Initiative on Methods, Measurement,

and Pain Assessment in Clinical Trials, IMMPACT-XV, Westin Georgetown, Washington, DC, June 22-23, 2012.

“Medical Frontiers & You”. Butler Conference of Leaders. M&T Stadium, Baltimore, MD, September 6, 2012.

“Emerging Concepts in HIV: What Neurologists Need to Know” Yale School of Medicine, November 6, 2013.

NINDS Grand Rounds, NIH, Bethesda, MD, June 3, 2014.

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
- Department of Neurology, University of California, San Francisco, Aird Professorship, San Francisco, CA, October 11-13, 2011

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
- Neil Holland, Pre-doctoral Research, 1991, CMV encephalitis in AIDS
- Matthew Beldon, Pre-doctoral Research, 1992, Clinical pathological studies of vacuolar myelopathy
- Bruce McCarthy, Pre-doctoral Research, 1993, Skin biopsy in peripheral nerve disease
- Dyan Hes, Pre-doctoral Research, 1993, Clinical studies of HIV dementia
- 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
- 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
- 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
- Rachel Shapiro, Pre-doctoral, 1998, Treatment response for HIV associated sensory neuropathy
- 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
- Amy Towfighi, Pre-doctoral, 2001, Soluble Fas in the cerebrospinal fluid is a potential marker for the severity and prognosis of HIV-associated dementia
 - 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
 - Jason Lee, Pre-doctoral, 2006, OCT in HIV infection
 - Lynn Wachtmann, Pre-doctoral, 2006, Platelet count as marker of HIV dementia (MPH Capstone project)
 - Catherine Christie, Pre-doctoral, 2006, Epidemiological studies in NeuroAIDS (MPH Capstone project)
 - 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
 - Harlan Michelle, Pre-doctoral, 2012, HIV-associated neurocognitive disorders
 - Jana Lowell, Pre-doctoral, 2013, HIV-associated neurocognitive disorders
 - Nikki Baumrind, Ph.D., Post-doctoral Fellowship, 1990-92, of macrophage-mediated damage in HIV CNS infection
 - 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 Canadian research funding/NIH funding
 - Gerald Dal Pan, MD, Post-doctoral Fellowship, 1992-94, Clinical trials for HIV neuropathy and dementia; Epidemiology of HIV-associated neurological diseases
 - 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
 - Kazim Sheikh, MBBS, Post-doctoral Fellowship, 1994-, Complement activation in HIV tissue RO1 funding
 - Giuseppe Lauria, Post-doctoral, 1997, Skin biopsy in sensory neuropathy, Italian research funding
 - David Herman, Post-doctoral, 1998, Correlation between unmyelinated nerve fiber density in skin and sural nerve biopsies, K23 award
 - 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, RO1 funding
 - Lauren Moo, Post-doctoral, 2001-2002, K23 award
 - Sanjay Keswani, Post-doctoral, 2001-2003, In vitro model of dideoxynucleoside toxicity, RO1 funding
 - Kate Cherry, Post-doctoral, 2001, Epidermal nerve fiber density and mitochondrial DNA in fat with dideoxynucleoside exposure, Australian research award
 - David Newman-Toker, Post-doctoral, 2002-2007, K23: Building a New Model for Diagnosis of ED Dizzy Patients
 - Christopher Gibbons, Post-doctoral (PGY4 resident), 2003, Epidermal nerve fiber density changes, K23 award
 - 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, Parkinson's disease teleneurology, K23
- Diane Thomas, Post-doctoral, 2004-, HIV/Diabetic peripheral neuropathies
- Paul Nyquist, Post-doctoral, 2006, Genetic polymorphisms in stroke (K23 to be submitted 2006), RO1 award
- Farrah Matteen, Post-doctoral, 2010, PhD Candidate JHU BSPH
- Edward Hammond, Post-doctoral, 2011, PhD Candidate JHU BSPH, R21 award
- Jennifer Lyons, Post-doctoral, 2012, T32 Fellow: Exserohilum infections after epidural steroids
- Kiran Thakur, Post-doctoral, 2012, T32 Fellow: Cerebral Malaria

Educational Extramural

Current

Dates: 07/01/11 – 06/30/16
NIMH P30 MH075673 (McArthur)
Center for novel therapeutics for HIV-associated cognitive disorders
Annual Direct Costs: \$1,173,544
PI: McArthur, Justin
JCM effort: 23%

Dates: 5/2/12-4/30/17
NIAID 1 P30 AI094189
The Johns Hopkins Center for AIDS Research (JHU CFAR)
Annual Direct Costs: \$2,362,228
PI: Richard Chaisson
JCM effort: 0.60

Dates: 9/1/10 – 4/30/21
NIMH 2 R25 MH080661-09
Translational Research in Neuro-AIDS and Mental Health
Annual Direct Costs: \$215,968
PI: NIMH
JCM effort: 0.60

Dates: 4/8/14-2/28/19
NIMH 1 R25 MH100711
Project Pipeline Baltimore: A Brain Sciences Program for High School Students
Annual Direct Costs: \$99,618
PI: Amanda Brown
JCM effort: 0.12

Dates: 6/1/15-5/31/20
NIMH P 01 MH105280
Intranasal Insulin Therapy for HIV-associated Neurocognitive Disorders
Annual Direct Costs: \$1,062,068
PI: Justin McArthur and Norm Haughey
JCM effort: 2.40

Previous

Dates: 8/1/86-9/30/87
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 - 10/31/89

NINDS RO1 NS 23936

Peripheral Neuropathies in AIDS Retrovirus Infection

PI: David Cornblath

JCM Effort: 10%

Dates: 9/30/87 - 9/29/91

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: 3/1/91 - 2/29/92

American Cyanamid Company

Multidose FLT Study

Annual Direct Costs: \$189,752

PI: Charles W. Flexner

JCM Effort: 1%

Dates: 6/30/86 - 12/31/2000

NIAID AI - 27668

AIDS Clinical Trial Unit

Annual Direct Costs: \$1,271,543

PI John Bartlett

JCM Effort: 10%

Dates: 1/1/91 - 12/31/91

National Multiple Sclerosis Society, Maryland Chapter

Multiple Sclerosis Autonomic Control Program

Annual Direct Costs: \$11,750

PI: Justin C. McArthur

JCM Effort: 0%

Dates: 7/1/88 - 6/30/93

NINDS P01 NS 26643

Research Centers for AIDS Dementia and Other Retrovirus-Associated Neurological Disorders

Annual Direct Costs: \$973,613 (7/1/92-6/30/93)

PI: Richard T. Johnson (Project leader: Justin McArthur)

JCM Effort: 20%

Dates: 4/01/93 - 4/01/94

Hoescht-Roussel Pharmaceuticals, Inc.

Pentoxifylline for HIV dementia (Phase I/II study of pentoxifylline-TNF antagonist)

Annual Direct Costs: \$88,000

PI: Justin McArthur

Effort: 5%

Dates: 7/1/91 - 6/30/94

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)

Annual Direct Costs: \$141,644

PI: Richard Ambinder

JCM Effort: 10%

Dates: 9/30/91 - 3/31/95

NIAID AI-35042

Multicenter AIDS Cohort Study

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)

PI: Alfred Saah

JCM Effort: 20%

Dates: 2/1/94 - 6/30/95

Genentech, Inc.

Skin Biopsy Project (to develop skin punch biopsy as a quantitative instrument to assess cutaneous innervation in normal individuals)

Annual Direct Costs: \$176,491

PI: Justin McArthur

Effort: 10%

Dates: 11/1/94 - 12/31/95

Peptech, Inc.

Phase II Study of Peptide T in HIV-associated Dementia

Annual Direct Costs: \$172,357

Co-PI's: Justin McArthur and Ola Selnes

JCM Effort: 10%

Dates: 10/1/95 - 9/30/96

(A3095) WW Smith Charitable Foundation

Epidermal Denervation in HIV-associated Sensory Neuropathy

Annual Direct Costs: \$79,091

PI: Justin McArthur

JCM Effort: 5%

Dates: 9/1/95 - 2/28/97

02414-19-RG American Foundation for AIDS Research

Effects of denervation on HIV and cytokine production in Langerhans cells

Annual Direct Costs: \$78,000

PI: Justin McArthur

JCM Effort: 5%

Dates: 1/1/94 -6/30/97

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)

Annual Direct Costs: \$157,000

PI: Justin McArthur

Effort: 10%

Dates: 8/1/96 - 1/31/98

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

Annual Direct Costs: \$173,659

PI: Ned Sacktor
JCM effort: no salary support

Dates: 7/1/97 - 6/30/98
Blaustein Pain Research Committee
Epidermal denervation in painful sensory neuropathies
Annual Direct Costs \$25,000
PI: Justin McArthur
JCM effort: no salary support

Dates: 7/1/93 - 6/30/98
NINDS NS-26643
Research Centers for AIDS Dementia
Annual Direct Costs: \$735,171 (7/1/97 - 6/30/98)
PI: Justin C. McArthur
JCM Effort: 17%

Dates: 9/1/96 - 8/31/98
Social & Scientific Systems
Examination of Cutaneous Innervation in ACTG 291/Substudy ACTG 860
Annual Direct Costs: \$25,600
PI: Justin McArthur
JCM effort: no salary support

Dates: 7/28/97-9/1/98
Glaxo Wellcome, Inc.
Relationship of HIV load and CNS immune activation in patients with neurological disease:
correlation with CNS penetration of antiretrovirals
Annual Direct Costs: \$42,322
PI: Justin McArthur
JCM effort: no salary support

Dates: 8/3/96 - 4/30/00
NINDS NS-35736
HIV in the brain: Mode of entry, genotype and dementia
Annual Direct Costs: \$178,418
PI: Suzanne Gartner
JCM effort: 10%

Dates: 4/1/95 -3/31/99
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)
Annual Direct Costs: \$781,576 (\$61,184 Dr. McArthur's component)
PI: Joseph Margolick
JCM Effort: 5%

Dates: 11/22/96 - 12/31/00
Glaxo-Wellcome, Inc.
Lamotrigine in the Treatment of Painful HIV-associated Sensory Neuropathy
Annual Direct Costs: \$43,500
PI: Justin McArthur

Dates: 3/1/98 - 2/29/00
Genentech, Inc.

Epidermal denervation in HIV-associated painful sensory neuropathies. Examination of cutaneous nerve fiber density in participants in ACTG 291.

Annual Direct Costs: \$177,750

PI: Justin McArthur

Dates: 4/30/99

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

Dates: 8/1/96 - 12/31/00

Roxane Laboratories

Roxane HIV Neuropathy Scholars Program

Annual Direct Costs: \$50,000

PI: Justin McArthur

Dates: 7/1/98 - 6/30/01

NINDS NS-26643

Research Centers for AIDS Dementia

Annual Direct Costs: \$440,328 (7/1/98 - 6/30/99)

PI: Justin C. McArthur

JCM Effort: 25%

Dates: 1/1/96 - 12/31/00

NIAID AI 27668

AIDS Clinical Trial Unit (to develop clinical trials for HIV-associated neurological diseases)

Annual Direct Costs: \$1,271,543

PI: John Bartlett, Charles Flexner

JCM Effort: 10%

Dates: 12/1/2000 - 11/30/01

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.

Annual direct costs: \$408,027

PI: Justin McArthur

JCM Effort: 3%

Dates: 1/10/01 - 1/9/02

NINDS NS-32228

Rates of epidermal regeneration after capsaicin denervation in ddX toxic sensory neuropathy

Annual direct costs: \$76,000

PI: Clifford (McArthur, substudy)

JCM effort: 3%

Dates: 9/28/99-5/31/02

NIMH MH-61438

CNS Metabolic Correlates of HIV Dementia by MRS Imaging

Annual direct costs: \$264,516

PI: Martin Pomper

JCM Effort: 4%

Dates: 3/1/02 - 2/28/03
Baltimore City Health Department Ryan White Title I
Primary Care
Annual Direct Costs: \$504,696
PI: John Bartlett
JCM Effort: 10%

Dates: 7/1/01 - 6/30/03
NINDS NS 26643

Research Center for AIDS Dementia
Annual direct costs: \$100,000 (supplemental bridging funds)
PI: McArthur, Justin
JCM effort: 5%

Dates: 4/1/99 - 3/31/2004
NIH/NIAID AI-35042
Multicenter AIDS Cohort Study
Annual direct costs: \$1,175,193 (\$70,388 Dr. McArthur's component)
PI: Margolick, Joseph
JCM effort: 4%

Dates: 11/26/01 – 4/30/04
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
Annual direct costs: \$928,791
PI: Polydefkis, Michael
JCM effort: 2%

Dates: 2/1/98 - 1/31/2004
NINDS NS36519
Neurocognitive function, viral load and surrogate markers
Annual Direct Costs: \$921,674 (Dr. McArthur's projects: Project 2: \$96,414; Core B \$55,662)
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: 12/1/96 - 7/31/04
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)
Annual Direct Costs: \$12,400 (base contract, additional per patient costs)
PI: David Clifford

Dates: 11/26/01 – 4/30/04
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
Annual direct costs: \$928,791
PI: Polydefkis, Michael
JCM effort: 2%

Dates: 4/1/99 - 3/31/2004
NIAID AI-35042
Multicenter AIDS Cohort Study
Annual direct costs: \$1,175,193 (\$70,388 Dr. McArthur's component)
PI: Joseph Margolick
JCM effort: 4%

Dates: 06/01/03-9/30/04
Neurogesx (C107 study)
A Randomized, Double-Blind, Controlled Dose Finding Study of NGX-4010 for the Treatment of Painful HIV-Associated Distal Symmetrical Polyneuropathy.
Annual direct costs: \$58,400
PI: McArthur, Justin
JCM effort: 1%

Dates: 6/15/2003 – 5/31/2008 (JCM support through 6/30/2005)
R01 DA014098-01A2
Cognitive consequences of endocrine dysfunction in IDU
Annual direct costs: \$ 250,000
PI: Dobs, Adrian
JCM effort: 5%

Dates: 3/19/2003-6/30/2005
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.
Annual direct costs: \$106,000
JCM effort: 1%

Dates: 5/21/03-05/20/05
NeurogesX
A contract for processing skin biopsies to assess cutaneous innervation in a dose finding study of a new drug for HIV-associated neuropathy.
Annual direct costs: \$6720
PI: McArthur, Justin
JCM effort 1%

Dates: 06/01/03-01/31/06
(C107 study) Neurogesx
A Randomized, Double-Blind, Controlled Dose Finding Study of NGX-4010 for the Treatment of Painful HIV-Associated Distal Symmetrical Polyneuropathy.
Annual direct costs: \$100,156
PI: McArthur, Justin
JCM effort: 1%

Dates: 7/07/03-4/30/08
NIMH R01 MH067831
Viral/Cell Determinants of HIV Drug Resistance in CNS
Annual direct costs: \$250,000
PI: Gartner, Suzanne
JCM effort: 10%

Dates: 7/19/02 - 5/31/07
NINDS RO1 NS44807

HIV-sensory neuropathies: risk factors, immunopathology
Annual direct costs: \$327,740
PI: McArthur, Justin
JCM effort: 18%

Dates: 7/15/2003 – 12/31/2007
NIAID RO1 AI057007
Tissue and Cell Reservoirs for HIV
Annual direct costs: \$188,412 (6 months)
PI: Gartner, Suzanne
JCM effort: 5%

Dates: 02/01/06-01/31/07
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
Annual direct costs: \$122,385
PI: Anita Venkataramana
JCM effort: 1%

Dates: 9/30/2001-7/31/2006
NINDS NS43011 Immunopathogenesis of HIV Neurological Disorders
Dr. McArthur's section: HIV Sensory Neuropathy: Age, Risk Factors, Immunopathology
Annual direct costs: \$865,533 \$108,932 (Dr. McArthur's section)
PI: Kraiselburd, UPR, (McArthur, JHU)
JCM effort: 20%

Dates: 7/1/2003 – 6/30/2007
PO1 AI 056297 (Nath, Avindra)
Immunophilin ligands for HIV dementia and neuropathy
Annual direct costs:
PI: Nath, Avindra (JCM: PI Project 5)
JCM effort: 15%

Dates: 4/1/2004 – 2/29/2009
NINDS RO1 NS49465
Predicting progression of NeuroAIDS
Annual Direct Costs: \$404,509
PI: McArthur, Justin
JCM Effort: 10%

Dates: 4/1/2004 – 2/29/2009
Annual Direct Costs: \$404,509

Dates: 8/1/03-7/31/09
NS-32228
Neurologic AIDS Research Consortium
Annual Direct Costs: \$35,000 (Leadership Award)
PI: Clifford, David
JCM effort: 5%

Dates: 3/12/03 – 8/31/10
N01 MH 22005
Long term effects of potent antiretroviral therapy on HIV-induced nervous system disease (CHARTER)
Annual Direct Costs: \$262,240

PI: Grant, Igor; Site PI: McArthur, Justin
JCM Effort: 3%

Dates: 12/01/08-12/30/10
111JC101

A Randomized, Rater-Blinded Study to Explore the Effect of Mefloquine in Subjects with Progressive Multifocal Leukoencephalopathy (PML)
Annual Direct Costs: \$157,672

PI: Justin McArthur
JCM Effort: 1%

Dates: 4/16/07-3/31/10
NIH R25MH080661

Diversity related Neuro-Aids and Mental Health Research
Annual Direct Costs: \$173,716

PI: Nath, Avindra
JCM Effort: 5%

Dates: 10/1/2005 – 01/31/2011

TR3760-A-3 (Calabresi)

National Multiple Sclerosis Society

Mechanisms of Neurodegeneration and Neuroprotection in MS

Annual Direct Costs: \$846,969

PI: Peter Calabresi
JCM Effort: 1%

Dates: 06/01/10-05/31/11

NIMH P30 MH 075673 Supplement

Supplement for PET Scanning

Annual Direct Costs: \$65,568

PI: McArthur, Justin

Pfizer A0081251

An Open-Label, Extension Safety Trial of Pregabalin in Subjects with Neuropathic Pain Associated with HIV Neuropathy

Annual Direct Costs: \$63,200

PI: McArthur, Justin
JCM Effort: 2.5%

Dates: 3/27/07-11/30/11

NIDA R01 DA004334

Natural History of HIV Infection in Injection Drug Users (ALIVE)

Annual Direct Costs: \$938,016

PI: Kirk

JCM Effort: 2.5%

Dates: 4/15/08-1/31/13

NIDA R01 DA12568

Incidence of HIV Infection in a Cohort of Injection Drug Users

Annual Direct Costs: \$461,973

PI: Mehta

JCM Effort: 2.5%

Dates: 05/01/10-04/30/12

Pfizer A0081244

“A Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Multicenter trial of Pregablin Versus Placebo in the Treatment of Neuropathic Pain Associated with HIV Neuropathy”
Annual Direct Costs: \$106,646
PI: McArthur, Justin
JCM Effort: 5%

Dates: 04/01/09-03/31/12
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

Chase-Braxton Health Services, Inc.
Ryan White Part C Early Intervention Services
Annual Direct Cost: \$295,816
PI: Keruly
JCM Effort:

Dates: 2/5/07 - 11/30/13
NIAID AI 27668
AIDS Clinical Trial Unit (to develop clinical trials for HIV-associated neurological diseases)
Annual Direct Costs: \$710,975
PI: Charles Flexner
JCM Effort: 5%

Dates: 09/01/10-06/30/15
NIMH 2 R25 MH080661-04
Translational research in Neuro-AIDS and Mental Health
Annual Direct Costs: \$ 216,530
PI: McArthur, Justin
JCM Effort: 2.5%

Dates: 09/16/10-09/15/15
NIMH N01MH22005
Long Term effects of potent antiretroviral therapy on HIV-induced nervous system disease (CHARTER)
Annual Direct Costs: \$110,996
PI: Grant, Igor
JCM Effort: 2.5%

Dates: 07/01/10-06/30/15
NINDS T32 NS069351-01
Training Clinician Scientist in Neuroinfectious Disease
Annual Direct Cost: \$108,620
PI: McArthur, Justin
JCM Effort:

Dates: 09/16/12-05/31/14
NIMH R03MH095640
Effect of Antiviral CNS Penetration on CSG/Blood Cytokines and Depression in HIV
PI: Treisman
JCM Effort: 2.5%

Training Grant Participation

Dates: 9/30/92 - 8/31/02
 Clinical Training in HIV
 PI: Dr. Richard Chaisson

Dates: 7/1/93 to 6/30/04
 Neuromuscular Training Grant
 PI: Daniel Drachman

Dates: 07/01/01 - 6/30/06
 Molecular Pathogenesis and AIDS Related CNS Disease
 PI: Janice Clements

CLINICAL ACTIVITIES

Certification

- Medical Licensure, Maryland (D0027666)
- Diplomat in Internal Medicine, American Board of Internal Medicine (1984)
- Diplomat in Neurology, American Board of Neurology and Psychiatry (1986)

Clinical (Service) Responsibilities

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

ORGANIZATIONAL ACTIVITIES

Institutional Administrative Appointments:

1988-1993	Committee on Appointments and Promotions, Department of Neurology
1988-1993	Scientific Advisory Subcommittee of the Interdisciplinary Committee on NMR
1988-1990	HIV Infection Clinical Studies Review Committee
1990-1995	Clinical Research Centers Advisory Committee
1992-1995	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
1996-1998	AIDS Malignancies Program Advisory Committee
1997-1999	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)
2008-2011	Agenda Committee for the Advisory Board of the Medical Faculty, School of Medicine
2008	Budget Committee, Clinical Practice Association
2008-2010	AUPN Executive Committee
2008-present	Member, Advisory Board of the Medical Faculty Johns Hopkins School of Medicine
2009	Committee on the Promotion of the Academic Clinician
2009	Committee on Clinical Innovator
2009-2012	Clinical Practice Association Board of Governors
2010-2011	Office of Johns Hopkins Physicians Executive Committee
2010	Clinical Practice Association Budget, Finance & and Planning Committee Chair

2010	Institute for clinical and Translational Research, Internal Advisory Board Member
2011	Search Committee, Chief Administrative Officer, Clinical Practice Association
2011	Professorial Promotions Committee
2012	Professorial Promotions Committee, Chairman
2012	Study Section Reviewer, NIH
2012	Core Faculty, Armstrong Institute for Patient Safety and Quality
2013	Search Committee, Director of the Department of Medicine
2013	Search Committee, Executive Director, Ambulatory Services
2013	Search Committee, Co-director, Division of Geriatric Psychiatry and Neuropsychiatry
2013	Johns Hopkins Hospital Board of Trustees Quality Improvement Committee
2014	Johns Hopkins School of Medicine Faculty Compensation Taskforce
2014	Search Committee, Director of the Department of Pathology
2014	Search Committee, President of Johns Hopkins Medicine International
2014	Office of AIDS Research Advisory Council, Department of Health and Human Services
2014	Search Committee, Director, Department of Medicine
2015	Search Committee, Director of Physical Medicine and Rehabilitation
2016	Search Committee, Director, Neurointensive Care Unit
2016	Search Committee, Chief Nursing Executive, Johns Hopkins Hospital System
2016	Search Committee, Director, Department of Psychiatry
2016	Strategic Priority Biomedical Discovery and Performance Leadership Committee

Editorial Activities

Editorial Board appointments

- 1998-2002 The Journal of Neuro-AIDS
- 1997-present Journal of Neurovirology
- 1998-present Moore HIV Report
- 1998-2005 The AIDS Reader
- 2001-2004 Virology
- 2014-present Seminars in Neurology

Journal peer review activities

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

Advisory Committees, Review Groups/Study Sections

1985-1988	Professional Advisory Committee, Maryland Chapter National Multiple Sclerosis Society
1988-1990	AIDS Task Force, American Academy of Neurology

1994-1994	AIDS Clinical Drug Development Committee (ACDDC), Food and Drug Administration
1986-1999	Neuropsychology Working Group, Multicenter AIDS Cohort Study Chairman (1986-1998)
1988-1994	Scientific Advisory Committee, American Foundation for AIDS Research
1990-1994	Infectious Disease Task Force, American Academy of Neurology
1991-1999	AIDS Clinical Trial Group (ACTG), Neurology Scientific Committee Chairman (1994-96), Vice-Chairman (1992-1994)
1992-1998	Scientific Advisory Committee, HIV Neurobehavioral Research Center, University of California, San Diego
1995-1997	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 nd 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
2005-2009	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
2012	ANA Early Career Development Committee
2016	ANA Professional Development Committee, Chair

Professional Societies

1983	American Academy of Neurology
2003-2006	Career Development Committee
2005	Council member
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 st Vice-President 2008-)
2004	American Society for Experimental NeuroTherapeutics (ASENT)
2010	Fellow, American Academy of Neurology

Conference Organizer, Session Chair

1987-1992	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 12th 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
- 2011 3rd Annual Translational and Clinical Research Course for Clinician-Scientists, American Neurological Association, Baltimore, MD, May 4-6, 2011

Consultantships

- 1988-1989 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.
- 2013 Chair of panel reviewing NeuroAIDS research (extramural) for Office of AIDS Research

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
2012	Super Doctors-Washington, DC-Baltimore-Northern Virginia
2012	Patients' Choice Award Winner
2007-2016	America's Top Doctors
2013	Mitchell B. Max Award for Neuropathic Pain, American Academy of Neurology, San Diego, CA March 19, 2013
2014	Miller-Coulson Academy for Clinical Excellence, Johns Hopkins Bayview Medical Center
2015	Neurology Core Clerkship Outstanding Educator Award for Outpatient Clinic
2016	6 th Annual Johns Hopkins School of Medicine Neurology Clinical Faculty Brain Award for Excellence in Teaching

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." 12th 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." VIth 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." 24th Western Intermountain Neurological Organization Meeting, Salt Lake City, UT, March 21, 2003
- "Skin biopsy: a new window on neuropathies. 24th Western Intermountain Neurological Organization Meeting, Salt Lake City, UT, March 22, 2003
- "Management of the neurological complications of HIV/AIDS" Grand Rounds, UMDNJ-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, 3rd 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." 13th 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 Naveland" Neurology Grand Rounds, Massachusetts General Hospital, Boston, MA, April 13, 2006.
- "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" 33rd 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" 52nd Annual Philip A. Tumulty Topics in Clinical Medicine, Johns Hopkins University, Baltimore, MD, May 7, 2007

"What's new in HIV Sensory Neuropathy?" 10th International Conference on the Mechanisms and Treatment of Neuropathic Pain. Salt Lake City, UT, November 2, 2007.

"Overview of axonal neuropathies: diabetic, HIV, amyloid and chemotherapy" CONCEPT Meeting, Washington, DC, October 2, 2013.

"Summary and Changes to the Faculty Promotions Process" Department of Oncology Faculty Meeting, Baltimore, MD, July 10, 2014.

"Overview and Progress" Johns Hopkins Internship in Brain Sciences Reunion, Baltimore, MD January 10, 2015.

"Report of the Dean's Taskforce on Faculty Compensation" Johns Hopkins Faculty Senate, Panel of Speakers, Baltimore, MD, February 18, 2015.

"Translational Neuroscience: Johns Hopkins Neurology" Translational Neuroscience Symposium, Baltimore, MD, February 25, 2015.

"What are my options if I don't get a K award? Successful Career Pathways at Hopkins" Johns Hopkins Faculty Retreat, Baltimore, MD, March 3, 2015.

"Professorial Promotion" Johns Hopkins University, Professor's Luncheon, Baltimore, MD, March 5, 2015.

"HIV and the CNS" Johns Hopkins University, Noon Conference for Neurology Residents, Baltimore, MD, March 13, 2015.

"How to Integrate Patient Care, Research and Teaching," Keynote Speaker, Collaboration in Health and Medical Research Conference, University of Melbourne, Australia, March 18, 2015.

"Creating a Globally Recognized Center of Research Collaboration Excellence," Keynote Speaker, Collaboration in Health and Medical Research Conference, University of Melbourne, Australia, March 19, 2015.

"Creating a Globally Recognized Center of Research Collaboration Excellence," South Australian Health and Medical Research Institute, Adelaide, South Australia, March 27, 2015.

"HIV Neuropathogenesis," Principles of Neuroimmunology, Johns Hopkins Hospital, April 7, 2015.

"HIV Neuropathogenesis" Principles in Neuroimmunology, Baltimore, MD, April 9, 2015.

"How to Be Successful in Academic Neuroscience - Keynote Address: Academic Neuroscience in the Modern Era," AAN Conference, Washington, D.C., April 18, 2015.

"Getting and Staying Funded," Seventh Annual Translational and Clinical Research Course, Mt. Washington Conference Center, July 21, 2015.

"Changing Therapies for Neurological Disorders," Johns Hopkins Aramco Healthcare Grand Rounds, Saudi Arabia, August 17, 2015.

"HIV and the Brain: Lessons for Neurology," University of Massachusetts Medical School Grand Rounds, University of Massachusetts Medical School, January 5, 2016.

"HIV and the Brain: Lessons for Neurology," Partners Neurology Grand Rounds, Longwood Medical Area, Harvard Institutes of Medicine and Brigham and Women's, Massachusetts General Hospital, January 6-7 2016.

Keynote Speaker – Richard T. Johnson Lectureship – 14th International Symposium on NeuroVirology and 2016 Conference of HIV in the Nervous System, Toronto, Ontario, Canada, October 28, 2016.

Temple University Neuroscience Grand Rounds Presenter, Temple University, Pittsburgh, PA, November 4, 2016.