

CURRICULUM VITAE

NAME: Donald Scott Burke, M.D.

Distinguished University Professor of Health
Science and Policy
Jonas Salk Chair in Population Health

CITIZENSHIP: United States

BUSINESS ADDRESS: University of Pittsburgh
Graduate School of Public Health
130 DeSoto Street
Pittsburgh, PA 15261
Telephone: 412-383-3595
Fax: 412-624-3013
E-mail: donburke@pitt.edu

EDUCATION AND TRAINING

Undergraduate

1963-1967	Western Reserve University, Cleveland, OH	B.A	Chemistry major; honors in biology; magna cum laude; Phi Beta Kappa
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Graduate

1967-1971	Harvard Medical School, Boston, MA	M.D.	Medicine
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Post Graduate

1971-1973	Harvard University and the Boston City Hospital, Boston, Massachusetts	Clinical Fellow Intern & Junior Resident Physician	Internal Medicine
1975-1976	Harvard University and the Massachusetts General Hospital, Boston Massachusetts	Clinical Fellow Senior Resident Physician	Internal Medicine
1976-1978	Walter Reed Army Medical Center, Washington, DC	Research Fellow	Infectious Disease

APPOINTMENTS AND POSITIONS

2018-present	Jonas Salk Chair in Population Health	University of Pittsburgh Pittsburgh, PA
2011-present	Distinguished University Professor of Health Science and Policy	University of Pittsburgh, Pittsburgh, PA
2006-2019	Dean	Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA
2006-2019	Associate Vice Chancellor for Global Health	University of Pittsburgh, Pittsburgh, PA
2006-2018	UPMC- Jonas Salk Chair in Global Health	University of Pittsburgh, Pittsburgh, PA
2006-2016	Director	Center for Vaccine Research, University of Pittsburgh, Pittsburgh, PA
2006-present	Professor of Epidemiology and Professor of Medicine	University of Pittsburgh, Pittsburgh, PA
1997-2006	Professor of International Health and Professor of Epidemiology	Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
	Professor of Medicine	Johns Hopkins School of Medicine, Baltimore, MD
	Director	Center for Immunization Research, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
1996-1997	Associate Director	For Emerging Threats and Biotechnology, Walter Reed Army Institute of Research (WRAIR), Washington, DC
1988-1996	Director	US Military HIV/AIDS Research Program. Rockville, MD
1988-1990	Director	Division of Retrovirology, WRAIR, Washington, DC
	Founder and Director	US Military HIV/AIDS Laboratory Complex, Rockville, MD
1984-1988	Chief	Department of Virus Diseases, WRAIR, Washington, DC
1983-1984	Deputy Director	Armed Forces Research Institute of Medical Sciences, Bangkok Thailand

1978-1984	Chief	Virology Department, Armed Forces Research Institute of Medical Sciences (AFRIMS), Bangkok, Thailand
1976-1978	Clinical Desk Officer	Department of Virus Diseases, WRAIR, Walter Reed Army Medical Center, Washington, DC
1973-1975	Clinical Ward Officer	Medical Division, US Army Medical Research Institute of Infectious Diseases (USAMRID), Fort Detrick, MD

ACADEMIC AND MEDICAL APPOINTMENTS / US MILITARY

1992-1997	Professor, Department of Medicine, Uniformed Service University of The Health Sciences, Bethesda, Maryland Uniformed Service University of The Health Sciences, Bethesda, MD
1985-1997	Staff Physician, Department of Medicine, Walter Reed Army Medical Center, Washington, DC
1990-1992	Faculty, Pre-Command Course, U.S. Army Command and General Staff College, Fort Leavenworth, KS
1987-1992	Associate Professor, Department of Medicine, Uniformed Service University of The Health Sciences, Bethesda, MD
1985-1992	Adjunct Associate Professor, Department of Preventive Medicine/Biometrics, Uniformed Service University of The Health Sciences, Bethesda, MD
1985-1990	Attending Physician, Infectious Diseases Service Walter Reed Army Medical Center, Washington, DC

CERTIFICATION AND LICENSURE

1978	Diplomat in the Sub-Specialty of Infectious Diseases	American Board of Internal Medicine
1977	Diplomat in the Specialty of Internal Medicine	American Board of Internal Medicine

MEDICAL OR OTHER PROFESSIONAL LICENSURE

Not current	Medical License #D16350 Specialist in Internal Medicine and Infectious Diseases	State of Maryland
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MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

Elected Member	Institute of Medicine of the National Academies
Elected Fellow	American Association for the Advancement of Science
Elected Fellow	American Academy of Microbiology
Elected Fellow	American Epidemiological Society
Fellow; President (1995-96)	American Society of Tropical Medicine and Hygiene
Fellow	Royal Society of Tropical Medicine and Hygiene (U.K.)
Fellow	American College of Physicians
Fellow	Infectious Disease Society of America
Member	American Public Health Association
Member	Physicians for Human Rights
Member	American Society for Virology
Member	American Association for the History of Medicine
Member	International AIDS Society
Member	International Society for Vaccines

HONORS

Military

1997	Legion of Merit
1991	National Defense Service Medal, First Oak Leaf Cluster
1991	Meritorious Service Medal, Third Oak Leaf Cluster
1990	Department of the Army "A" Proficiency Designator, Infectious Diseases
1989	Order of Military Medical Merit
1986	Meritorious Service Medal, Second Oak Leaf Cluster
1985	Meritorious Service Medal, First Oak Leaf Cluster

1984	Armed Forces Reserves Medal
1984	Overseas Ribbon
1981	Humanitarian Service Medal
1978	Meritorious Service Medal
1975	Army Commendation Medal
1973	National Defense Service Medal
1973	Army Service Ribbon

Medical and Public Health

2018	John Snow Award American Public Health Association, Epidemiology Section
2018	Jonas Salk Chair in Population Health, University of Pittsburgh
2016	Fellow, American Society of Tropical Medicine & Hygiene
2011	Distinguished University Professor of Health Science and Policy, University of Pittsburgh
2009	Elected Member Institute of Medicine, National Academies of Science
2008	Lifetime National Associate of the National Research Council, for “Extraordinary Service to the NRC and the Academies”
2007	Ambassador, Paul G. Rogers Society for Global Health Research
2006	UPMC – Jonas Salk Chair in Global Health, University of Pittsburgh
2006	Elected Fellow, American Epidemiological Society
2003	Elected Fellow, American Association for the Advancement of Science (Medical Science)
2000	Elected Fellow, American Academy of Microbiology
2000	Elected Member, Delta Omega Public Health Honorary Society
1999	Golden Apple Award (best teacher), Johns Hopkins School of Hygiene and Public Health
1995	Elected President, American Society of Tropical Medicine & Hygiene
1992	Sustaining Membership Award, Association of Military Surgeons of the US, for outstanding contributions to medical research

1990	Bailey K. Ashford Medal of the American Society of Tropical Medicine and Hygiene, for outstanding achievements in tropical medicine by a society member under the age of 45 years
1989	Nathaniel A. Young Memorial Award of the American Committee on Arthropod-borne viruses, American Society of Tropical Medicine and Hygiene for outstanding contributions to arbovirology by a scientist under the age of 45 years
1989	Kimble Methodology Award of the Conference of Public Health Laboratorians, for outstanding contributions to Public Health by development and implementation of HIV diagnostics

RESEARCH AND TRAINING

Grants and Contracts Received

Years Inclusive	Title	Role
2018 – 2019	Support the Creation of a Pittsburgh Regional Forum on Opioid Epidemic (The Pittsburgh Foundation)	Co-Principal Investigator
2018 - 2020	Advancing Analytics to Improve Actionable Changes in the Opioid Overdose Epidemic (CDC)	Principal Investigator
2018 - 2020	PA Opioid Data Dashboard and Data Analytics Tool (PA Dept. of Health)	Co-Principal Investigator
2016 - 2021	Outpatient VE for Seasonal Flu, Pandemic Flu and RSV in a Large, Diverse Network (NIH)	Co-Investigator
2016 - 2020	Development of a Novel, Sensitive ZIKV-Specific Sero-diagnostic Assay Utilizing Biologically Inspired Synthetic Molecules (NIH/NIAID)	Principal Investigator
2015 -2019	Developing Public Health Decision Support Tools: FRED Ages and Stages and MPDS (Robert Wood Johnson Foundation)	Principal Investigator
2004 – 2020	Modeling of Infectious Disease Agent Study Center of Excellence “MIDAS” (NIH/NIGMS)	Principal Investigator

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2018 – 2019	Support the Creation of a Pittsburgh Regional Forum on Opioid Epidemic (The Pittsburgh Foundation)	Co-Principal Investigator
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2016 - 2020	Development of a Novel, Sensitive ZIKV-Specific Sero-diagnostic Assay Utilizing Biologically Inspired Synthetic Molecules (NIH/NIAID)	Principal Investigator
2015 -2019	Developing Public Health Decision Support Tools: FRED Ages and Stages and MPDS (Robert Wood Johnson Foundation)	Principal Investigator
2015 – 2019	Empowering Indian Health Researchers with Computational Modeling Tools (NIH / Fogarty International Center)	Co-Principal Investigator
2013 – 2018	Improving Global Health Through the Use of Modeling and Simulation in Brazil, South Africa, Taiwan, and Burma (Benter Foundation)	Principal Investigator
2013 - 2018	VMI II: Application of Computational Models to Guide and Evaluate Global Infectious Disease Control Programs (Bill and Melinda Gates Foundation)	Principal Investigator
2008 – 2016	Evaluation of Candidate Vaccine Technologies using Computational Models “Vaccine Modeling Initiative” (Bill and Melinda Gates Foundation)	Principal Investigator
2013 – 2015	Detection of Recent HIV-1 Infections Based on Naturally Inspired Synthetic Oligomers (Bill and Melinda Gates Foundation)	Principal Investigator

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2018 – 2019	Support the Creation of a Pittsburgh Regional Forum on Opioid Epidemic (The Pittsburgh Foundation)	Co-Principal Investigator
2018 - 2020	Advancing Analytics to Improve Actionable Changes in the Opioid Overdose Epidemic (CDC)	Principal Investigator
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2015 -2019	Developing Public Health Decision Support Tools: FRED Ages and Stages and MPDS (Robert Wood Johnson Foundation)	Principal Investigator
2008 – 2014	Preparedness and Emergency Response Research Center: A Public Health Systems Approach (CDC)	Investigator
2009 – 2012	Center for Immunology of Emerging Infectious Diseases (NIH/NIAID)	Principal Investigator
2007 – 2010	Dengue Envelope Domain III C3D Vaccine (Dept of Defense)	Principal Investigator
2007 – 2011	Dengue Virus-Like Particle Vaccine (Department of Defense)	Investigator
2006 – 2009	Pittsburgh Influenza Prevention Project “PIPP” (CDC)	Principal Investigator
2005 – 2010	Planning for Avian Influenza Outbreaks and Potential Pandemics in Thailand (NIH/Fogarty International Center)	Principal Investigator
2003 – 2006	Mid-Atlantic Regional Center of Excellence for Biodefense (NIH/NIAD)	Co-Principal Investigator
2000 – 2006	Johns Hopkins HIV Vaccine Trials Unit (NIH/NIAID)	Principal Investigator

HONORARY LECTURES AND SEMINARS

February 2015	Keynote Speaker	Sixth Annual J. Robert Clapp, Jr., Diversity Leadership Award Ceremony, Rush University Medical Center, Chicago, IL
April, 2009	O. Ray Kling Distinguished Lecturer	Public Health Grand Rounds, University of Oklahoma, Oklahoma City, OK
December 2008	Keynote Address	Tulane University President's Symposium, New Orleans, LA
June 2008	Invited Lecturer	"Science with the Stars" Walter Reed Army Institute of Research Seminar Series, Silver Springs, MD
December 2007	Keynote Address	Institute of Medicine Forum on Microbial Threats, Washington, DC
August 2007	Keynote Address	Annual Meeting of the US Department of Defense Global Emerging Infection Surveillance and Response System, Louisville, KY
September 2006	John C. Cutler Memorial Lecturer	University of Pittsburgh Graduate School of Public Health Pittsburgh, PA
June 2005	Keynote Address	Annual Symposium, New York Academy of Medicine and the Royal Society of Medicine, New York, NY
April 2004	Invited Lecturer	Annual Meeting of the National Academy of Sciences, Washington, DC
December 2003	Centennial Anniversary Lecturer	American Society of Tropical Medicine and Hygiene, Philadelphia, PA
November 2002	Distinguished Scientist Seminar	Marine Biological Laboratory, Woods Hole, MA
March 2001	Thomas Francis, Jr. Annual Memorial Lecturer	University of Michigan School of Public Health, Ann Arbor, MI
February 1999	Invited Lecturer, 50 th Anniversary Celebration	University of Pittsburgh, Graduate School of Public Health, Pittsburgh, PA
November 1997	Chapman Binford Memorial Lecture	American Society of Microbiology, Atlanta, GA

December 1996	Presidential Address	American Society of Tropical Medicine and Hygiene, Baltimore, MD
May 1995	Visiting Professor	University of Pittsburgh, School of Medicine, Department of Molecular Genetics and Biochemistry, Pittsburgh, PA
February 1995	Visiting Lecturer	Department of Microbiology and Molecular Genetics, Harvard Medical School, Boston, MA
March 1994	Visiting Professor	Tulane University School of Public Health and Tropical Medicine, New Orleans, LA
April 1993	Visiting Professor	Dartmouth Medical School and Dartmouth College, Hanover, NH

PUBLICATIONS

ORCID ID: 0000-0002-5704-8094

1. Rushforth NB, **Burke DS**. Behavioral and electrophysiological studies of hydra, II. Pacemaker activity of isolated tentacles. *Biol Bull* 1971;140:502-519
2. **Burke DS**. Cardiac monitor malfunction simulating bizarre rhythm. *Postgrad Med* 1976;60:265-66
3. **Burke DS**. Immunization against Tularemia: Analysis of the effectiveness of live *Francisella tularensis* vaccine in prevention of laboratory-acquired tularemia. *J Infect Dis.* 1977 Jan;135(1):55-60
4. Goldman L, Caldera DL, Nussbaum SR, Southwick FS, Krogstad D, Murray B, **Burke DS**, O'Malley TA, Goroll AH, Caplan CH, Nolan J, Carabello B, Slater EE. Multifactorial index of cardiac risk in noncardiac surgical procedures. *N Engl J Med.* 1977 Oct 20;297(16):845-50
5. Oster CN, **Burke DS**, Kenyon RH, Ascher MS, Harber P, Pedersen CE. Laboratory-acquired Rocky Mountain Spotted Fever: The hazard of aerosol transmission. *N Engl J Med.* 1977 Oct 20;297(16):859-63
6. **Burke DS**, Ramsburg HH, Edelman R. Persistence in humans of antibody to subtypes of Venezuelan Equine Encephalitis (VEE) virus after immunization with attenuated (TC-83) VEE virus vaccine. *J Infect Dis.* 1977 Sep;136(3):354-9
7. **Burke DS**, Ullian RB. Megaesophagus and pneumonia associated with *Mycobacterium chelonae*: A case report and a literature review. *Am Rev Respir Dis.* 1977 Dec;116(6):1101-7
8. Goldman L, Caldera DL, Southwick FS, Nussbaum SR, Murray B, O'Malley TA, Goroll AH, Caplan CH, Nolan J, **Burke DS**, Krogstad D, Carabello B, Slater EE. Cardiac risk factors and complications in non-cardiac surgery. *Medicine (Baltimore).* 1978 Jul;57(4):357-70
9. Fine D, Mosher D, Yamada T, **Burke DS**, Kenyon R. Coagulation and complement studies in Rocky Mountain Spotted Fever. *Arch Intern Med* 1978;138:735-738
10. **Burke DS**, Madoff S. Infection of a traumatic pelvic hematoma with *Mycoplasma hominis*. *Sex Transm Dis.* 1978 Apr-Jun;5(2):65-7

11. Light JA, **Burke DS**. Association of cytomegalovirus (CMV) infections with increased recipient mortality following transplantation. *Transplant Proc.* 1979 Mar;11(1):79-82
12. **Burke DS**, Gaydos JC, Hodder RA, Bancroft WH. Seroimmunity to polioviruses in U.S. Army recruits. *J Infect Dis.* 1979 Feb;139(2):225-7
13. **Burke DS**, Magic shotgun pellets. *Lancet.* 1979 Jun 30;1(8131):1414
14. **Burke DS**, Brown SL. Lack of diagnostic utility of "Febrile Agglutinin" screens. *Mil Med.* 1980 Sep;145(9):624-7
15. **Burke DS**, Jensen MM. Immunization against turkey coryza by colonization with mutants of *Alcaligenes faecalis*. *Avian Dis.* 1980 Jul-Sep;24(3):726-33
16. **Burke DS**, Nimmannitya S. Passively acquired antibody to hepatitis A virus in Thai infants. *Southeast Asian J Trop Med Public Health.* 1980 Sep;11(3):415-6
17. **Burke DS**, Snitbhan R, Johnson DE, Scott RM. Age specific prevalence of hepatitis A virus antibody in Thailand. *Am J Epidemiol.* 1981 Mar;113(3):245-9
18. Johnson DE, **Burke DS**, Williams RG, Murray BE. Observations on medical care in a refugee camp in Thailand. *Mil Med.* 1981 Dec;146(12):842-5
19. Nimmannitya S, Nisalak A, **Burke DS**. Passively acquired antibody to flaviviruses in Thai infants. *Southeast Asian J Trop Med Public Health.* 1981 Sep;12(3):344-5
20. **Burke DS**, Churchill FE Jr, Gaydos JC, Kaufman L. Epidemic histoplasmosis in patients with undifferentiated fever. *Mil Med.* 1982 Jun;147(6):466-7
21. Tingpalapong M, Whitmire RE, Watts DM, **Burke DS**, Binn LN, Tesaprateep T, Laungtongkum S, MarchwickRH. Epizootic of viral enteritis in dogs in Thailand. *Am J Vet Res.* 1982 Sep;43(9):1687-90
22. Watts DM, Harrison BA, Nisalak A, Scott RM, **Burke DS**. Evaluation of *Toxorhynchites splendens* (Diptera: Culicidae) as a bioassay host for dengue viruses. *J Med Entomol.* 1982 Jan 28;19(1):54-9
23. **Burke DS**, Nisalak A. Detection of Japanese encephalitis virus Immunoglobulin M antibodies in serum by antibody capture radioimmunoassay. *J Clin Microbiol.* 1982 Mar;15(3):353-61
24. **Burke DS**, Nisalak A, Ussery MA. Antibody capture immunoassay detection of Japanese encephalitis virus immunoglobulin M and G antibodies in cerebrospinal fluid. *J Clin Microbiol.* 1982 Dec;16(6):1034-42 PMID:7161371
25. Lam K-W, **Burke DS**, Siemens M, Cipperly V, Li C-Y, Yam LT. Characterization of serum acid phosphatase associated with dengue hemorrhagic fever. *Clin Chem.* 1982 Nov;28(11):2296-9
26. Gilbreath MJ, Pavanand K, MacDermott RP, Ussery M, **Burke DS**, Nimmannitya S, Tulyayon S. Cold-reactive immunoglobulin M antilymphocyte antibodies directed against B cells in Thai children with dengue hemorrhagic fever. *J Clin Microbiol.* 1983 Apr;17(4):672-6
27. Echeverria P, **Burke DS**, Blacklow NR, Cukor G, Charoenkul C, Yanggratoke S. Age-specific prevalence of antibody to rotavirus, *Escherichia coli*, heat-labile enterotoxin, Norwalk virus, and hepatitis A virus in a rural community in Thailand. *J Clin Microbiol.* 1983 May;17(5):923-5
28. Srivatanakul P, **Burke DS**, Thanasombutt S, and Tanngarmtron D. Serum markers of hepatitis A and B virus infection in Thai patients with primary hepatocellular carcinoma. *Thai Cancer J* 1983;9:113-118
29. Henderson A, Leake CJ, Burke DS. Japanese encephalitis in Nepal. *Lancet.* 1983 Dec 10;2(8363):1359-60
30. **Burke DS**, Heisey GB. Wild Malaysian cynomolgus monkeys are exposed to hepatitis A virus. *Am J Trop Med Hyg.* 1984 Sep;33(5):940-4
31. Brown GW, Shirai A, Jegathesan M, **Burke DS**, Twartz JC, Saunders P, and Huxsoll DL. Febrile illness in Malaysia - An analysis of 1,629 hospitalized patients. *Am J Trop Med Hyg.* 1984 Mar;33(2):311-5

32. Henchal EA, McCown JM, **Burke DS**, Seguin MC, Brandt WE. Epitopic analysis of antigenic determinants on the surface of dengue-2 virions using monoclonal antibodies. *Am J Trop Med Hyg.* 1985 Jan;34(1):162-9
33. **Burke DS**, Nisalak A, Ussery MA, Laorakpongse T, Chantavibul S. Kinetics of IgM and IgG Responses to Japanese encephalitis virus in human serum and cerebrospinal fluid. *J Infect Dis.* 1985 Jun;151(6):1093-9
34. **Burke DS**, Tingpalapong M, Ward GS, Andre R, Leake CJ. Intense transmission of Japanese encephalitis virus to pigs in a region free of epidemic encephalitis. *Southeast Asian J Trop Med Public Health.* 1985 Jun;16(2):199-206
35. **Burke DS**, Tingpalapong M, Elwell MR, Paul PS, VanDeusen RA. Japanese encephalitis virus immunoglobulin M antibodies in porcine sera. *Am J Vet Res.* 1985 Oct;46(10):2054-7
36. **Burke DS**, Chatiyononda K, Anandrik S, Nakornsri S, Nisalak A, Hoke CH. Improved surveillance of Japanese encephalitis by detection of virus-specific IgM in desiccated blood specimens. *Bull World Health Organ.* 1985;63(6):1037-42
37. **Burke DS**, Lorsomrudee W, Leake CJ, Hoke CH, Nisalak A, Chongswasdi V, Laorkapongse T. Fatal outcome in Japanese encephalitis. *Am J Trop Med Hyg.* 1985 Nov;34(6):1203-10
38. **Burke DS**, Nisalak A, Lorsomrudee W, Ussery MA, Laorpongse T. Virus-specific antibody-producing cells in blood and cerebrospinal fluid in acute Japanese encephalitis. *J Med Virol.* 1985 Nov;17(3):283-92
39. Watts DM, Harrison BA, Pantuwatana S, Klein TA, **Burke DS**. Failure to detect natural transovarial transmission of dengue virus by *Aedes aegypti* and *Aedes albopictus* (Diptera: Culicidae). *J Med Entomol.* 1985 May 24;22(3):261-5
40. Johnson RT, **Burke DS**, Elwell M, Leake CJ, Nisalak A, Hoke CH, Lorsomrudee W. Japanese encephalitis: immunocytochemical studies of viral antigen and inflammatory cells in fatal cases. *Ann Neurol.* 1985 Nov;18(5):567-73
41. **Burke DS**, Ussery MA, Elwell MR, Nisalak A, Leake C, Laorakpongse T, Isolation of Japanese encephalitis virus strains from sentinel pigs in northern Thailand, 1982. *Trans R Soc Trop Med Hyg.* 1985;79(3):420-1
42. Wattanavijarn W, Tesprateep T, **Burke DS**, Absence of porcine parvovirus transmission to man. *Trans R Soc Trop Med Hyg.* 1985;79(4):561
43. **Burke DS**, Nisalak A, Nimmannitya S, Disappearance of Chikungunya virus from Bangkok. *Trans R Soc Trop Med Hyg.* 1985;79(3):419-20
44. Tingpalapong M, Hoke CH, Ward GS, **Burke DS**, Elwell MR, Lohythyothin S, Saisombat S. Anti-rabies virus IgM in serum and cerebrospinal fluid from rabid dogs. *Southeast Asian J Trop Med Public Health.* 1986 Dec;17(4):550-7
45. **Burke DS**, Nisalak A, Hoke CH. Field trial of a Japanese encephalitis diagnostic kit. *J Med Virol.* 1986 Jan;18(1):41-9
46. Leake CJ, **Burke DS**, Nisalak A, Hoke CH. Isolation of Japanese encephalitis virus from clinical specimens using a continuous mosquito cell line. *Am J Trop Med Hyg.* 1986 Sep;35(5):1045-50
47. **Burke DS**, Redfield RR, Classification of infections with human immunodeficiency virus. *Ann Intern Med.* 1986 Dec;105(6):968
48. Monath TP, Wands JR, Hill LJ, Brown NV, Marciniak RA, Wong MA, Gentry MK, **Burke DS**, Grant JA, Trent DW. Geographic classification of dengue-2 virus strains by antigen signature analysis. *Virology.* 1986 Oct 30;154(2):313-24
49. Leake CJ, Ussery MA, Nisalak A, Hoke CH, Andre RG, **Burke DS**. Virus isolations from mosquitoes collected during the 1982 Japanese encephalitis epidemic in northern Thailand. *Trans R Soc Trop Med Hyg.* 1986;80(5):831-7
50. Kelley PW, Redfield RR, Ward DL, **Burke DS**, Miller RN, Prevalence and incidence of HTLV-III infection in a prison. *JAMA.* 1986 Oct 24-31;256(16):2198-9

51. **Burke DS**, Redfield RR, False-positive Western blot tests for antibodies to HTLV-III. *JAMA*. 1986 Jul 18;256(3):347
52. Sjogren MH, Tanno H, Fay O, Sileoni S, Cohen BD, **Burke DS**, Feighny RJ. Hepatitis A virus in stool during clinical relapse. *Ann Intern Med*. 1987 Feb;106(2):221-6
53. **Burke DS**, Morrill JE. Levels of Interferon in the plasma and cerebrospinal fluid of patients with acute Japanese Encephalitis. *J Infect Dis*. 1987 Apr;155(4):797-9
54. Watts DM, **Burke DS**, Harrison BA, Whitmire RE, Nisalak A. Effect of temperature on the vector efficiency of *Aedes aegypti* for dengue-2 virus. *Am J Trop Med Hyg*. 1987 Jan;36(1):143-52
55. **Burke DS**, Nisalak A, Gentry MK. Detection of flavivirus antibodies in human serum by epitope-blocking immunoassay. *J Med Virol*. 1987 Oct;23(2):165-73
56. **Burke DS**, Redfield RR, Putman P, Alexander SS. Variations in Western blot banding patterns of Human T-Cell Lymphotropic Virus Type III/Lymphadenopathy-associated Virus. *J Clin Microbiol*. 1987 Jan;25(1):81-4
57. Redfield RR, Wright DC, James WD, Jones TS, Brown C, **Burke DS**. Disseminated vaccinia in a military recruit with human immunodeficiency virus (HIV) disease. *N Engl J Med*. 1987 Mar 12;316(11):673-6
58. **Burke DS**, Brandt BL, Redfield RR, Lee T-H, Thorne RM, Beltz GA, Hung C-H. Diagnosis of Human Immunodeficiency Virus infection by immunoassay using a molecularly cloned and expressed virus envelope polypeptide. Comparison to Western blot on 2707 consecutive serum samples. *Ann Intern Med*. 1987 May;106(5):671-6
59. **Burke DS**, Brundage JF, Bernier W, Gardner LI, Redfield RR, Gunzenhauser J, Voskovitch J, Herbold JR. Demography of HIV infections among civilian applicants for military service in four counties in New York City. *N Y State J Med*. 1987 May;87(5):262-4
60. Redfield RR, **Burke DS**. Shadow on the Land: The Epidemiology of HIV infection. *Viral Immunol*. 1987 Spring;1(1):69-81
61. Rhoads JL, Wright DC, Redfield RR, **Burke DS**. Chronic vaginal candidiasis in women with Human Immunodeficiency infection. *JAMA*. 1987 Jun 12;257(22):3105-7
62. **Burke DS**, Brundage JF, Herbold JR, Berner W, Gardner LI, Gunzenhauser JD, Voskovitch J, Redfield RR. Human Immunodeficiency Virus infections among civilian applicants for United States military service, October 1985 to March 1986. *N Engl J Med*. 1987 Jul 16;317(3):131-6
63. Lennox JL, Redfield RR, **Burke DS**. HIV antibody screening in a general hospital population. *JAMA*. 1987 Jun 5;257(21):2914
64. **Burke DS**, Nisalak A, Johnson DE, Scott RMcN. A prospective study of dengue infections in Bangkok. *Am J Trop Med Hyg*. 1988 Jan;38(1):172-80 PMID:3341519
65. Kliks SC, Nimmanitya S, Nisalak A, **Burke DS**. Evidence that maternal dengue antibodies are important in the development of dengue hemorrhagic fever in infants. *Am J Trop Med Hyg*. 1988 Mar;38(2):411-9
66. Walker PJ, Henchal EA, Blok J, Repik PM, Henchal LS, **Burke DS**, Robbins SJ, Gorman BM. Variation in dengue type 2 viruses isolated in Bangkok during 1980. *J Gen Virol*. 1988 Mar;69 (Pt 3):591-602
67. Putnak JR, Charles PC, Padmanabhan R, Irie K, Hoke CH, **Burke DS**. Functional and antigenic domains of the dengue-2 virus nonstructural glycoprotein NS-1. *Virology*. 1988 Mar;163(1):93-103
68. Innis BL, Eckels KH, Kraiselburd E, Dubois DR, Meadors GF, Gubler DJ, **Burke DS**, Bancroft WH. Virulence of a live dengue virus vaccine candidate: A possible new marker of dengue virus attenuation. *J Infect Dis*. 1988 Oct;158(4):876-80
69. Hoke CH, Nisalak A, Sangawhipa N, Jatanasen S, Laorakapongse T, Innis BL, Kotchasene S-O, Gingrich JB, Latendresse J, Fukai K, **Burke DS**. Protection against

- Japanese encephalitis by inactivated vaccines. *N Engl J Med.* 1988 Sep 8;319(10):608-14 PMID:2842677
70. Brundage JF, **Burke DS**, Gardner LI, Visintine R, Peterson M, Redfield RR. HIV infection among young adults in the New York area: Prevalence and incidence estimates based on antibody screening among civilian applicants for military service. *NY State J of Med* 1988;88:232-235
 71. Warrell MJ, Looareesuwan S, Manatsathit S, White NJ, Phuapradit P, Vejajjiva A, Hoke CH, **Burke DS**, Warrell DA. Rapid diagnosis of rabies and post-vaccinal encephalitides. *Clin Exp Immunol* 1988 Jun;72(3):521
 72. **Burke DS**, Brundage JF, Redfield RR, Damato JJ, Schable CA, Putman P, Visintine R, Kim HI. Measurement of the false positive rate in a screening program for Human Immunodeficiency Virus infections. *N Engl J Med.* 1988 Oct 13;319(15):961-4
 73. Damato JJ, Fipps DR, Redfield RR, **Burke DS**. The Department of the Army quality assurance program for Human Immunodeficiency Virus antibody testing. *Lab Med* 1988;19:577-580
 74. Damato JJ, Kim H, Fipps DR, Wylie N, **Burke DS**. High-resolution HIV Western blot methodology using Bio Rad Mini Protein II Test System. *Lab Med* 1988;19:753-756
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9. **Burke DS**. HIV and AIDS in the United States Military. Chapter in the *Oxford Companion to American Military History*, ed. Chambers JW (2000).
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7. **Burke DS**, Redfield RR. False positive Western blot tests for antibodies to HTLV-III. *J Am Med Assoc* 256:347 (letter, 1986).

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3. **Burke DS**. Introduction to the 1991 ASTMH Presidential Address. *Am J Trop Med Hyg* 46:239-240 (1992).
4. **Burke DS**. Amsterdam AIDS Conference reveals slow progress (news). *Critical Care Nurse* 12:98-99 (1992).
5. **Burke DS**. HIV infection and AIDS: Editorial overview. *Curr Opp Infect Dis* 6:179-180 (1993).
6. Mascola JR, McNeil, JG, **Burke DS**. AIDS vaccines. Are we ready for human efficacy trials? *J Am Med Assoc* 272:488-489 (1994).
7. **Burke DS**. 1996 American Society of Tropical Medicine and Hygiene President's Address. Sing for the Gov'nor: A call to advocacy for tropical medicine and hygiene. *Am J Trop Med Hyg* 56:1-6 (1997).
8. **Burke DS**. Six Months to Act (Op-Ed on SARS). *Wall Street Journal*, 25 April 2003 (2003).
9. **Burke DS**. Ignoring Deadly Viruses (Op-Ed on avian influenza). *Asian Wall Street Journal*, 26 January 2004 (2004).

10. **Burke DS.** Avian Influenza Is a Threat To Our Collective Security (Op-Ed). Wall Street Journal, 3 November 2005 (2005)
11. **Burke DS.** We didn't lose the War on Drugs, we surrendered (Op-Ed on opioid epidemic). Pittsburgh Post-Gazette. 22 Oct. 2017: (2017)
12. Hufford M, **Burke DS:** (2018 November 8) The costs of heroin and naloxone: a tragic snapshot of the opioid crisis. STAT.
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SERVICE: UNIVERSITY AND PROFESSIONALLY RELATED

University of Pittsburgh

2006-2019	Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA	Dean
2006-2019	Center for Global Health, University of Pittsburgh, Pittsburgh, PA	Associate Vice Chancellor
2006 - 2016	Center for Vaccine Research, University of Pittsburgh, Pittsburgh, PA	Director
2011 - 2014	Distinguished Faculty Committee, University of Pittsburgh	Chair
2013 - 2014	Chancellor Search Committee, University of Pittsburgh	Member

Johns Hopkins University (Bloomberg School of Public Health)

2002-2006	Committee on Appointments and Promotions / school-wide	Member
2002-2006	Disease Prevention and Control Division	Assoc Dept Chairman
2001-2003	Biodefense Leadership Group / school-wide	Member
1998-2001	Committee on Human Research (Institutional Review Board) / school-wide	Co-Chairman
1998-2006	Certificate Program in Vaccine Science and Policy	Director
1997-2006	Appointments and Promotions Committee	Member
1997-2006	Executive Committee	Member
1997-2006	Curriculum Committee	Member
1997-2003	Admissions Committee	Member
1997-2002	Graduate Degree Program in Vaccine Science and Policy	Director

CONSULTATIONS, PANELS, AND BOARDS

World Health Organization/SE Asia Regional Office, Temporary Advisor, on Research in Viral Hemorrhagic Fevers, 1980; on Dengue Hemorrhagic Fever, 1983; on Viral Hepatitis, 1984
Steering Committee on Dengue Vaccines, World Health Organization, Member, 1985 – 1988
Americans for a Sound AIDS Policy (ASAP) Advisory Council, Member, 1987 – 1992

AIDS Vaccine Research and Development Subgroup, US Public Health Service, DoD representative, 1987 – 1992
HIV Early Care Advisory Group, American Medical Association, Member, 1989 – 1990
Diagnostic and Therapeutic Technology Assessment Panel, American Medical Association, Member, 1989 – 1991
Roundtable for the Development of Drugs and Vaccines against AIDS, Institute of Medicine, Member, 1989 – 1994
International Forum on AIDS Research, Institute of Medicine, Member, 1990 – 1992
Steering Committee on AIDS/HIV Vaccine Development, World Health Organization, Member, 1991 – 1994
HIV/AIDS Working Group, Center for Strategic and International Studies, Member, 1992 – 1994
Mahidol University, Consultant, Post-graduate Training in Virology in Response to the HIV/AIDS Epidemic, Bangkok, Thailand, 1993
Civil-Military Alliance against HIV/AIDS, Co-Founder, 1993
Working Group on HIV Vaccine Development and International Field Trials of the Federal Coordinating Committee on Science, Engineering and Technology Committee on Life Sciences and Health, Co-Chairman, 1992 – 1994
Pharmaceutical Organization, Royal Thai Government, Consultant, on Local Production of HIV Vaccines, 1994
AIDS Vaccine Trials Data and Safety Monitoring Board, Member, National Institutes of Health, 1988 – 1996
UNAIDS, Temporary Advisor on HIV Molecular Epidemiology, 1996 and 2000
Vice President's Working Group on HIV Vaccines and Therapeutics, White House, Member, 1996
American Association of Blood Banks, Consultant, Think Tank on Emerging Viruses, 1996
Ministry of Agriculture, Government of New Zealand, Consultant, on Rabbit Hemorrhagic Disease Virus as a Bio-control Agent, 1997
National Institutes of Health Study Section on Tropical Medicine and Parasitology, Member, 1997 – 2000
Food and Drug Administration, Transmissible Spongiform Encephalopathies Advisory Committee, Member, 1998 – 2002
National Research Council, Panel on Climate, Ecology, Infectious Diseases, and Health, Chairman, 1999 – 2001
Institute of Medicine, Department of Defense Global Emerging Infectious Surveillance Committee, Member, 2000 – 2001
International Research Institute for Climate Prediction of Columbia University, Scientific Advisory Committee, Member, 2000 – 2003
Institute of Medicine, Committee on Emerging Microbial Threats to Health in the 21st Century, Member, 2001 – 2003
Smallpox Computational Modeling Working Group, Office of Public Health Emergency Preparedness, US Department of Health and Human Services, Member, 2002 – 2004. SARS Task Force, Defense Science Board, Department of Defense, Member, 2003 – 2004.
National Biodefense Analysis and Countermeasure Center, Department of Homeland Security, Working Group on Threat Prioritization, Chair, Virology Group, 2003 – 2004
Federation of American Scientists, Biosecurity Education for Biology Graduate Students Project, Temporary Advisor, 2004
International AIDS Vaccine Initiative, Co-founder, 1994-96; Senior Scientific Advisor, 1997-2002; Policy Advisory Board Member, 2003 – present
Institute of Medicine, Department of Defense / Veterans Affairs Medical Follow-up Agency, Member of the Board, 2002-2006
Physicians for Human Rights / Health Action AIDS, Executive Committee, 2003 – 2006
Data Safety and Monitoring Board, HIV RV144 Phase III Clinical Trial (Rayong Thailand), Member, 2004 – 2009

Middle Atlantic Regional Center of Excellence for Biodefense and Emerging Infections (MARCE),
Steering Committee, 2004 – 2008
Consortium for Conservation Medicine, Executive Committee, 2004-present
Bill & Melinda Gates Foundation, Technical Review Panel, HIV/AIDS Vaccines, Member, 2005
Special Review Panel of the Joint National Institutes of Health / National Science Foundation
Ecology of Infectious Disease Program, Panel Chairman, 2005
Jewish Healthcare Foundation, Board Member, 2006 – 2012
Community Health Committee of the UPMC Board of Directors, 2006 – 2009
National Biodefense Analysis & Countermeasures Center, Science & Technology Advisory
Committee, Department of Homeland Security, 2006 – present
Brookings Institution Center on Social and Economics Dynamics Advisory Board Member, 2006 –
2007
Wellcome Trust / Bill & Melinda Gates Foundation Ad Hoc Advisory Meeting on Innovation in
Research, Delegate, London, 2007
South African AIDS Vaccine Initiative of the South African Medical Research Council, Scientific
Advisory Committee, 2007 – 2009
Pediatric Dengue Vaccine Initiative, Board of Counselors, Chair, 2007 – 2010
Jewish Health Care Pittsburgh Regional Health Initiative (PRHI) Oversight Committee Member,
2008 – 2018
Institute of Medicine, Board on Global Health, Committee on Research Needs for Retention of
Variola Virus Member, 2008 – 2009
NIH Director's Blue Ribbon Panel for the Risk Assessment of the National Emerging Infectious
Diseases Laboratories, Member, 2008 – 2011
University of Pittsburgh Confucius Institute Advisory Board Member, 2008 – present
MRC Centre for Outbreak Analysis and Modeling Scientific Advisory Board Member,
2008 – present
Dengue Vaccine Advocacy Initiative (Sanofi-Pasteur) Steering Committee Member, 2008 – present
Allegheny County Board of Health, Member, 2008 – present
UPMC/21CB Vaccine Production Steering Committee Member, 2009 – 2011
Institute of Medicine Report on Personal Protective Equipment against H1N1
Review Coordinator, 2009
Pennsylvania's Public Health Law Advisory Committee, 2009 – present
National Biosurveillance Advisory Subcommittee, Centers for Disease Control, Member and
Champion for National Workforce Development Taskforce, 2010 - 2011
Institute of Medicine, Committee on the Special Immunizations Program for Laboratory Personnel
Engaged in Research on Countermeasures for Select Agents, Chair, 2010 - 2012
Office of Public Health Preparedness and Response Board of Scientific Counselors, CDC,
2011 – 2014
Association for Schools and Programs of Public Health Global Health Committee Chair, 2011 -
2015
National Research Council, Committee on Support to the Department of Defense's Programs to
Counter Biologic Threats, Chair, 2012 – 2015
Grace and Harold Sewell Memorial Fund for Medical Librarians, Board Member, 2012 - present
World Health Organization, Immunization and Vaccines Implementation Research Committee,
2012 – 2019
Governor's Health Innovation in Pennsylvania (HIP) Steering Committee, 2015 – present
National Academies of Science-Engineering-Medicine, Planning Committee on Gain-of-Function
Research, The Second Symposium, 2016
Association for Schools and Programs of Public Health, member of Task Force on Public Health
Initiatives to Address the Substance Abuse Crisis, 2018

CLINICAL AND RELATED ACTIVITIES

Inpatient: Patient Care

LOCATION/SERVICE	ACTIVITY	TIME DEVOTED TO ACTIVITY
Walter Reed Army Medical Center, Washington, DC	Attending Physician, Infectious Diseases Service	1985-1990

Previously licensed in Maryland but I do not currently practice medicine

PATENTS

Title: PRIMATE T-LYMPHOTROPIC VIRUSES (HTLV-3 and HTLV-4)
Patent Holders: Switzer WM, Heneine W, Folks TM, Wolfe ND, Burke DS, Mpoudi-Ngole E
Patent #: 8,541,221 B2 (formerly 7794998)
Application Date: 7/01/2010
Issue Date: 9/24/2013

Title: SIMIAN T-CELL LYMPHOTROPIC VIRUS
Patent Holders: Switzer WM, Heneine W, Folks TM, Wolfe ND, Burke DS, Sintasath DM
Patent #: 8,663,968
Application Date: 05/20/2008
Issue Date: 03/04/2014

Title: COMPOSITIONS AND METHODS FOR PEPTOID-BASED DETECTION AND DIAGNOSIS OF HIV/AIDS AND OTHER INFECTIOUS DISEASES
Patent Holders: Burke DS, Montelaro RC, Gearhart TL, Marques ET
Provisional Patent Application University of Pittsburgh Ref #: 03791
Application #: 62/335,893
Recorded date: 06/09/2016