

David (Davey) M. Smith, M.D., M.A.S.

Professor of Medicine
University of California San Diego
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Office University of California, San Diego
Department of Medicine, Mail Code 0679
9500 Gilman Drive
La Jolla, CA 92093-0679

Telephone (858) 642-1620 (office); (619) 300-9638 (cell)

Fax (858) 552-7445

E-Mail davey@ucsd.edu

Lab URL <http://id.ucsd.edu/faculty/smith.shtml>

PubMed List: <http://www.ncbi.nlm.nih.gov/sites/myncbi/david.smith.1/bibliography/42296470/public/?sort=date&direction=ascending>

Education

1989-1992 B.S. in Biology, summa cum laude, Univ. of Tennessee at Chattanooga; Chattanooga, TN
1992-1996 M.D., East Tennessee State University College of Medicine; Johnson City, TN
1996-1999 Intern and Resident, Internal Medicine, University of California, San Diego; La Jolla, CA
1999-2000 Chief Resident, Internal Medicine, University of California, San Diego; La Jolla, CA
2000-2003 Fellow, Infectious Diseases, University of California, San Diego; La Jolla, CA
2002-2005 M.A.S., Clinical Research, University of California, San Diego; La Jolla, CA

Board Certification

1999-2019 Internal Medicine, American Board of Internal Medicine
2004-2024 Infectious Disease, American Board of Internal Medicine

Appointments

2002-present Medical Director, The Night Clinic, Family Health Centers of San Diego; San Diego, CA (serving gay men and transgender individuals with culturally competent care)
2003-2009 Assistant Adjunct Professor of Medicine, Department of Medicine, Division of Infectious Diseases, University of California San Diego (UCSD); San Diego, CA
2004-2013 Medical Director, San Diego County Early Intervention and Bridge Programs, UCSD Antiviral Research Center; San Diego, CA
2005-present Staff Physician, Veterans Affairs Medical Center; San Diego, CA
2005-present Director, HIV/HCV and HIV/HPV Co-Infections Clinic, Special Infectious Diseases Program, Veterans Affairs Medical Center; San Diego, CA
2009-present Director, Translational Virology Core, UCSD Centers for AIDS Research, San Diego; CA
2010-present Core Faculty, Internal Medicine Residency Program, UCSD; San Diego, CA
2009-2013 Associate Professor of Medicine in Residence, Department of Medicine, Division of Infectious Diseases, UCSD; San Diego, CA
2012-2017 Associate Director Infectious Disease Fellowship Training Program, UCSD; San Diego, CA

- 2013-2016 Professor of Medicine In Residence, Department of Medicine, Division of Infectious Diseases, UCSD, San Diego, CA
- 2014-present Co-director, San Diego Center for AIDS Research; San Diego, CA
- 2016-present Professor of Medicine Ladder Rank, Department of Medicine, Division of Infectious Diseases, UCSD, San Diego, CA
- 2016-present Vice-Chair of Faculty, Department of Medicine UCSD, San Diego, CA
- 2017-present Chief, Division of Infectious Diseases and Global Public Health UCSD, San Diego, CA

University and Community Service

- 2005-2017 Permanent Member, San Diego County HIV Planning Council; San Diego, CA
- 2005-2017 Chair, Standards of Care Committee, San Diego County HIV Planning Council; San Diego, CA
- 2008-2014 Board Member, Christie's Place; San Diego, CA (non-profit community support organization for women and families affected by HIV/AIDS) (President 2011-2014)
- 2009-present UCSD Chancellor's Advisory Committee on Gender Identity and Sexual Orientation Issues (CACGISOI, Chair 2011-2013)
- 2011-2015 Chair, Institutional Biosafety Committee, Veterans Affairs Healthcare System; San Diego, CA
- 2011-present AIDS Clinical Trials Group HIV Reservoirs and Viral Eradication Transformative Science Group
- 2012-2016 California HIV Research Program Scientific Advisory Board (Vice-Chair 2014, Chair 2015-2016)
- 2013-present Department of Medicine Committee on Appointments and Promotions (Chair 2016, 2017)

Fellowships and Honor Societies

- 1995 AOA Medical Honor Society (Junior Year election, President Delta Chapter 1996)
- 2014 Fellow American College of Physicians
- 2015 American Society of Clinical Investigation

Honors / Awards

- 1995 Student National Medical Association Senior Leadership Award, East Tennessee State University; Johnson City, TN
- 1996 President, Delta Chapter of the AOA Medical Honor Society, East Tennessee State University; Johnson City, TN
- 1996 College of Medicine Dean's Scholarship Award, East Tennessee State University; Johnson City, TN
- 2001 Men's Volunteer of the Year, The San Diego Lesbian, Gay, Bisexual, Transgender Community Center (The Center); San Diego, CA
- 2002 Associate Investigator Award, Veterans Affairs Medical Center; San Diego, CA
- 2005 Study of superinfection, published 2004 in JAMA, selected for Discover magazine's 2004 "The Year in Science: Top 100 Stories" as story #41. Discover 26(1), January 2005.
- 2005 Community Service Award, Transgender Community Coalition; San Diego, CA
- 2005 Selected for National Center for Leadership in Academic Medicine; University of California, San Diego; San Diego, CA
- 2005 AIDS Walk San Diego's Outstanding Volunteer of the Year (Medical Area); San Diego, CA
- 2008 "40 Under 40" Award (honoring young San Diego leaders) from San Diego Metropolitan magazine; San Diego, CA
- 2008 Nominated for the 2008 Kaiser Excellence in Teaching Award by the third year students of the UCSD School of Medicine; San Diego, CA

2008	Finalist for the 2nd Annual Health Care Champions Awards by the San Diego Business Journal; San Diego, CA
2009	Awarded the Dr. A. Brad Truax Award (for outstanding achievement in the area of HIV/AIDS service) by the County of San Diego Health and Human Services Agency; San Diego, CA
2010	HIV Medical Association Research Award from the Infectious Diseases Society of America
2012	National Institute of Drug Abuse Avant Garde Award in HIV Prevention
2012, 2014	UCSD Internal Medicine Residency Teaching Award from the Chief Residents

OTHER SUPPORT

ACTIVE

5 K24 AI100665-02 (Smith)	05/01/2012 – 04/30/2022	3.0200 Cal
NIH/NIAID (PA-11-185)	\$169,669 (directs)	

Mentoring Translational Research in HIV

To mentor trainees in translational HIV research.

P30 AI036214 (Richman, Douglas D.*)	04/15/2013 - 03/31/2018	0.9000 Cal
VMRF/NIH	\$98,107 (directs)	

Center for AIDS Research – Core K: Translational Virology

Directs the Translational Virology Core for the UCSD Center for AIDS Research. The Core performs viral pathogenesis assays to support HIV research at UCSD and other affiliated institutions. ***I will assume the PI of this grant in the next renewal, which was submitted August 1st, 2017.**

1 R21 DA041007-01 (Smith)	09/15/2015 – 7/31/2018	0.9012 Cal
NIH/NIDA (R21 project period is 3 years and R33 is 2 years)	\$250,000 (directs)	

Characterizing proviral populations in brain tissues

To develop and validate a combined next generation sequencing (Pacific Biosciences single-molecule, real time (SMRT) sequencing) and bioinformatics platform to accurately measure and characterize HIV DNA populations in brain and lymph node tissues.

R01 DA037811-01 (Patterson, T)	04/01/2014–03/31/2019	0.9036 Cal
NIH/NIDA	\$481,209 (directs)	

HIV case finding and genetic transmission networks among MSM in Tijuana, Mexico

To compare the effectiveness of partner contact tracing vs. random screening at high-risk venues in finding new cases of HIV among men who have sex with men in Tijuana.

1 DP1 DA034978-01 (Smith)	08/01/2012 –07/31/17	1.8018 Cal
NIH/NIDA	\$500,000 (directs no cost extension)	

Molecular Epidemiology for HIV Prevention for Drug Users and Other Risk Groups

To integrate subject data from local research, clinical and public health entities that are screening for and treating HIV infected individuals.

1 R01 AI118422-01A1 (Smith)	02/01/2016 – 01/31/2021	1.3521 Cal
NIH/NIAID	\$503,824 (directs)	

Perturbing the HIV Reservoir with Immune Stimulation

A two stage clinical trial to determine how vaccines can stimulate the immune system and induce viral transcription from the HIV reservoir.

P30MH062512 (Heaton, Robert K.)	04/01/2016-03/31/2021	0.4495 Cal
NIH	\$1,111,667 (directs)	

HIV Neurobehavioral Research Center (HNRC)

A center that integrates and supports research into etiology, pathogenesis, phenomenology, treatment, and prevention of neuroAIDS.

5 R01AI120009-01 (Smith)	07/01/2015 – 12/31/2019	0.9012 Cal
NIH/NIAID	\$258,810 (directs)	

High-throughput Deep Sequencing Assay to Reliably Measure the HIV Reservoir during Antiretroviral Therapy
To develop and validate a combined next generation sequencing (Pacific Biosciences single-molecule, real time (SMRT) sequencing) and bioinformatics platform to accurately measure replication-competent provirus.

P01 AI131385 (Smith)	03/01/2017 – 02/28/2022	1.4106 cal
NIH	\$1,000,000 (directs)	

This program will investigate HIV-infected study volunteers who started HIV therapy during early infection and some who started during chronic infection; all of whom who interrupted this therapy.

Publications (1-242)

1. Smith DM, Ziegler EJ, Rickman LS. Primary Meningococcal Polyarthritits, Cellulitis, and Pneumonia in an Elderly, Immunocompetent Woman. Infectious Diseases in Clinical Practice. 1999;8(4):215-8.
2. Smith DM, Rickman LS. Echinococcosis: a drop of water—review on human disease, diagnosis, and management. Infectious Diseases in Clinical Practice. 2001;10(7):355-9.
3. Smith D, Letendre S. Viral pneumonia as a serious complication of etanercept therapy. Annals of internal medicine. 2002;136(2):174.
4. Smith D, Metzgar D, Wills C, Fierer J. Fatal Saccharomyces cerevisiae aortic graft infection. Journal of clinical microbiology. 2002;40(7):2691-2.
5. Rought SE, Sasik R, Smith DM, Corbeil J. Chipping Away at HIV Pathogenesis. Pathogen Genomics: Humana Press; 2002. p. 13-24.
6. Rought SE, Sasik R, Smith DM, Corbeil J. THE NEW AND IMPROVED GENETIC CODE. Pathogen genomics: impact on human health. 2002:13.

7. Smith D, Wong J, Badley AD, Hawley-Foss N, Mbisa G, Lum JJ, Pilon AA, Angel JB, Garber G. Continue Antiretroviral Therapy during Virologic Failure?[with Reply]. *Clinical infectious diseases*. 2002;553-6.
8. Smith D, Bannykh S, Ziegler E. A woman kicked in the head by a horse. *Infectious Diseases in Clinical Practice*. 2002;11(1):28-9.
9. Strain M, Günthard H, Havlir D, Ignacio C, Smith D, Leigh-Brown A, Macaranas T, Lam R, Daly O, Fischer M. Heterogeneous clearance rates of long-lived lymphocytes infected with HIV: intrinsic stability predicts lifelong persistence. *Proceedings of the National Academy of Sciences*. 2003;100(8):4819-24.
10. Smith DM, Jolla L, Wong JK, Hightower GK, Ignacio CC, Koelsch KK, Daar ES, Richman DD, Little SJ. Individuals already infected with HIV should thus continue vigilant personal protection through safe-sex practices or clean needle use for injection drugs, even if their risk exposures are with other HIV-infected people. *J Infect Dis*. 2003;188:397-405.
11. Mackowiak PA, Chardos JF, Smith D, Letendre S. Demyelinating encephalitis. *Clinical infectious diseases*. 2003;36(10):1332-4.
12. Smith D, Koelsch K, Wong J, Hightower G, Ignacio C, Richman D, Little S, editors. Male genital tract compartmentalization and transmission of 215L revertant. *ANTIVIRAL THERAPY*; 2003: INT MEDICAL PRESS LTD 2-4 IDOL LANE, LONDON EC3R 5DD, ENGLAND.
13. Koelsch KK, Smith DM, Little SJ, Ignacio CC, Macaranas TR, Brown AJ, Petropoulos CJ, Richman DD, Wong JK. Clade B HIV-1 superinfection with wild-type virus after primary infection with drug-resistant clade B virus. *Aids*. 2003;17(7):F11-F6.
14. Smith DM, Wong JK, Hightower GK, Ignacio CC, Koelsch KK, Daar ES, Richman DD, Little SJ. Incidence of HIV superinfection following primary infection. *Jama*. 2004;292(10):1177-8.
15. Smith DM, Kingery JD, Wong JK, Ignacio CC, Richman DD, Little SJ. The prostate as a reservoir for HIV-1. *Aids*. 2004;18(11):1600-2.
16. Richman DD, Little SJ, Smith DM, Wrin T, Petropoulos C, Wong JK. HIV evolution and escape. *Transactions of the American Clinical and Climatological Association*. 2004;115:289.
17. Frost SD, Wrin T, Smith DM, Pond SLK, Liu Y, Paxinos E, Chappey C, Galovich J, Beauchaine J, Petropoulos CJ. Neutralizing antibody responses drive the evolution of human immunodeficiency virus type 1 envelope during recent HIV infection. *Proceedings of the National Academy of Sciences of the United States of America*. 2005;102(51):18514-9.
18. Smith DM, Richman DD, Little SJ. HIV superinfection. *Journal of Infectious Diseases*. 2005;192(3):438-44.
19. Strain M, Letendre S, Pillai S, Russell T, Ignacio C, Günthard H, Good B, Smith D, Wolinsky S, Furtado M. Genetic composition of human immunodeficiency virus type 1 in cerebrospinal fluid and blood without treatment and during failing antiretroviral therapy. *Journal of virology*. 2005;79(3):1772-88.
20. Smith DM, Wong JK, Hightower GK, Ignacio CC, Koelsch KK, Petropoulos CJ, Richman DD, Little SJ. HIV drug resistance acquired through superinfection. *Aids*. 2005;19(12):1251-6.
21. Yang OO, Daar ES, Jamieson BD, Balamurugan A, Smith DM, Pitt JA, Petropoulos CJ, Richman DD, Little SJ, Brown AJL. Human immunodeficiency virus type 1 clade B superinfection: evidence for differential immune containment of distinct clade B strains. *Journal of virology*. 2005;79(2):860-8.
22. Pillai SK, Good B, Pond SK, Wong JK, Strain MC, Richman DD, Smith DM. Semen-specific genetic characteristics of human immunodeficiency virus type 1 env. *Journal of virology*. 2005;79(3):1734-42.

23. Pillai SK, Pond SLK, Woelk CH, Richman DD, Smith DM. Codon volatility does not reflect selective pressure on the HIV-1 genome. *Virology*. 2005;336(2):137-43.
24. Smith D, Wong J, Mai H, Moreno J, Russell T, Ignacio C, Frost S, Richman D, Little S, editors. Slow reversion of HIV transmitted drug resistance to non-nucleoside reverse transcriptase inhibitors in semen. *Antiviral Therapy*; 2005: INT MEDICAL PRESS LTD 2-4 IDOL LANE, LONDON EC3R 5DD, ENGLAND.
25. Little SJ, Smith DM. HIV treatment decisions and transmitted drug resistance. *Clinical Infectious Diseases*. 2005;41(2):233-5.
26. Goicoechea M, Smith DM, Liu L, May S, Tenorio AR, Ignacio CC, Landay A, Haubrich R. Determinants of CD4+ T cell recovery during suppressive antiretroviral therapy: association of immune activation, T cell maturation markers, and cellular HIV-1 DNA. *Journal of Infectious Diseases*. 2006;194(1):29-37.
27. Smith DM, Strain MC, Frost SD, Pillai SK, Wong JK, Wrin T, Liu Y, Petropoulos CJ, Daar ES, Little SJ. Lack of neutralizing antibody response to HIV-1 predisposes to superinfection. *Virology*. 2006;355(1):1-5.
28. Pillai SK, Pond SLK, Liu Y, Good BM, Strain MC, Ellis RJ, Letendre S, Smith DM, Günthard HF, Grant I. Genetic attributes of cerebrospinal fluid-derived HIV-1 env. *Brain*. 2006;129(7):1872-83.
29. Smith DM, Drumright LN, Frost SD, Cheng WS, Espitia S, Daar ES, Little SJ, Gorbach PM. Characteristics of recently HIV-infected men who use the Internet to find male sex partners and sexual practices with those partners. *JAIDS Journal of Acquired Immune Deficiency Syndromes*. 2006;43(5):582-7.
30. Smith DM. The controversies of nevirapine for preventing mother-to-child HIV transmission. *Aids*. 2006;20(2):281-3.
31. Mehta SR, Herndier NM, Smith DM. Mycobacterium szulgai causing knee abscess and osteomyelitis in a patient with acquired immunodeficiency syndrome and subsequent immune reconstitution syndrome. *Infectious Diseases in Clinical Practice*. 2006;14(6):392-3.
32. Smith D, Strain M, Frost S, Pillai S, Wong J, Wrin T, Liu Y, Petropoulos C. Lack of neutralizing antibody response to HIV-1 2 predisposes to superinfection. *Virology*. 2006;355:1-5.
33. Butler DM, Smith DM. Serosorting can potentially increase HIV transmissions. *Aids*. 2007;21(9):1218-20.
34. Smith DM, Wong JK, Shao H, Hightower GK, Mai SH, Moreno JM, Ignacio CC, Frost SD, Richman DD, Little SJ. Long-term persistence of transmitted HIV drug resistance in male genital tract secretions: implications for secondary transmission. *Journal of Infectious Diseases*. 2007;196(3):356-60.
35. Smith D, Moini N, Pesano R, Cachay E, Aiem H, Lie Y, Richman D, Little S. Clinical utility of HIV standard genotyping among antiretroviral-naïve individuals with unknown duration of infection. *Clinical infectious diseases*. 2007;44(3):456-8.
36. Smith DM, Mathews WC. Physicians' attitudes toward homosexuality and HIV: Survey of a California medical society-revisited (PATHH-II). *Journal of homosexuality*. 2007;52(3-4):1-9.
37. Cachay ER, Frost SD, Richman DD, Smith DM, Little SJ. Herpes simplex virus type 2 infection does not influence viral dynamics during early HIV-1 infection. *Journal of Infectious Diseases*. 2007;195(9):1270-7.
38. Noviello C, Pond SK, Lewis M, Richman D, Pillai S, Yang O, Little S, Smith D, Guatelli J. Maintenance of Nef-mediated modulation of major histocompatibility complex class I and CD4 after sexual transmission of human immunodeficiency virus type 1. *Journal of virology*. 2007;81(9):4776-86.
39. Cachay ER, Moini N, Kosakovsky Pond SL, Pesano R, Lie YS, Aiem H, Butler DM, Letendre S, Mathews W, Smith DM. Active Methamphetamine Use is Associated with Transmitted Drug Resistance to Non-

Nucleoside Reverse Transcriptase Inhibitors in Individuals with HIV Infection of Unknown Duration. The open AIDS journal. 2007;1(1).

40. Ances B, Perthen J, Liang C, Leontiev O, Smith D, Little S, Richman D, Letendre S, Buxton R, Ellis R, editors. Acute and chronic HIV reduce the BOLD signal magnitude. ANNALS OF NEUROLOGY; 2007: WILEY-LISS DIV JOHN WILEY & SONS INC, 111 RIVER ST, HOBOKEN, NJ 07030 USA.
41. Ances B, Liang C, Sisti D, Buxton R, Smith D, Little S, Letendre S, Richman D, Ellis R, editors. Cerebral blood flow (CBF) and cerebral metabolic rate of oxygen consumption (CMRO2) are elevated in both early and chronically infected HIV plus patients compared to seronegative controls using quantitative functional magnetic resonance imaging (qfMRI). JOURNAL OF NEUROVIROLOGY; 2007: TAYLOR & FRANCIS INC 325 CHESTNUT ST, SUITE 800, PHILADELPHIA, PA 19106 USA.
42. Ances BM, Liang C, Buxton RB, Smith D, Little S, Letendre S, Richman D, Ellis R, editors. Differences in cerebral blood flow (CBF) and cerebral metabolic rate of oxygen consumption (CMRO2) in HIV+ patients compared to seronegative controls using quantitative functional magnetic resonance imaging (qfMRI). JOURNAL OF NEUROVIROLOGY; 2007: SPRINGER 233 SPRING ST, NEW YORK, NY 10013 USA.
43. Goicoechea M, Smith D. Universal HIV testing: is it enough? Clinical Infectious Diseases. 2007;45(10):1375-6.
44. Hightower G, Letendre S, Cachay E, Cherner M, Gibson S, Ellis R, Richman D, Ignacio C, Smith D, editors. Antiretroviral resistance and neuropsychological performance among HIV-infected individuals. ANTIVIRAL THERAPY; 2007: INT MEDICAL PRESS LTD 2-4 IDOL LANE, LONDON EC3R 5DD, ENGLAND.
45. Little S, Parkin N, Chappey C, Smith D, Richman D, Frost S, editors. Differences in viral load and replication capacity in individuals harbouring virus with or without drug resistance. ANTIVIRAL THERAPY; 2007: INT MEDICAL PRESS LTD 2-4 IDOL LANE, LONDON EC3R 5DD, ENGLAND.
46. Little SJ, Frost SD, Wong JK, Smith DM, Pond SLK, Ignacio CC, Parkin NT, Petropoulos CJ, Richman DD. Persistence of transmitted drug resistance among subjects with primary human immunodeficiency virus infection. Journal of virology. 2008;82(11):5510-8.
47. Butler DM, Smith DM, Cachay ER, Hightower GK, Nugent CT, Richman DD, Little SJ. Herpes simplex virus 2 serostatus and viral loads of HIV-1 in blood and semen as risk factors for HIV transmission among men who have sex with men. AIDS (London, England). 2008;22(13):1667.
48. Smith DM, Schooley RT. Running with scissors: using antiretroviral therapy without monitoring viral load. Clinical Infectious Diseases. 2008;46(10):1598-600.
49. Kosakovsky Pond S, Poon A, Zarate S, Smith D, Little S, Pillai S, Ellis R, Wong J, Leigh Brown A, Richman D. Estimating selection pressures on HIV-1 using phylogenetic likelihood models. Statistics in medicine. 2008;27(23):4779-89.
50. Cachay ER, Frost SD, Poon AF, Looney D, Rostami SM, Pacold ME, Richman DD, Little SJ, Smith DM. Herpes simplex virus type 2 acquisition during recent HIV infection does not influence plasma HIV levels. Journal of acquired immune deficiency syndromes (1999). 2008;47(5):592.
51. Smith DM. Active duty military personnel presenting for care at a gay men's health clinic. Journal of homosexuality. 2008;54(3):277-9.
52. Little S, Frost S, Wong J, Smith D, Pond S, Ignacio C. NT 675 Parkin, CJ Petropoulos, and DD Richman. 2008. Persistence of transmitted 676 drug resistance among subjects with primary human immunodeficiency virus 677 infection. J Virol. 2008;82:5510-8.

53. Ances B, Sisti D, Vaida F, Liang C, Leontiev O, Perthen J, Buxton R, Benson D, Smith D, Little S. Resting cerebral blood flow A potential biomarker of the effects of HIV in the brain. *Neurology*. 2009;73(9):702-8.
54. Smith DM, May S, Tweeten S, Drumright L, Pacold ME, Pond SLK, Pesano RL, Lie YS, Richman DD, Frost SD. A public health model for the molecular surveillance of HIV transmission in San Diego, California. *AIDS (London, England)*. 2009;23(2):225.
55. Pond SLK, Smith DM. Are All Subtypes Created Equal? The Effectiveness of Antiretroviral Therapy against Non—Subtype B HIV-1. *Clinical infectious diseases*. 2009;48(9):1306-9.
56. Smith DM, May SJ, Perez-Santiago J, Strain MC, Ignacio CC, Haubrich RH, Richman DD, Benson CA, Little SJ. The use of pooled viral load testing to identify antiretroviral treatment failure. *AIDS (London, England)*. 2009;23(16):2151.
57. Smith DM, Zárate S, Shao H, Pillai SK, Letendre SL, Wong JK, Richman DD, Frost SD, Ellis RJ, Group H. Pleocytosis is associated with disruption of HIV compartmentalization between blood and cerebral spinal fluid viral populations. *Virology*. 2009;385(1):204-8.
58. Bharti AR, Letendre SL, Patra KP, Vinetz JM, Smith DM. Malaria Diagnosis by a Polymerase Chain Reaction–Based Assay Using a Pooling Strategy. *The American journal of tropical medicine and hygiene*. 2009;81(5):754-7.
59. Nugent CT, Dockter J, Bernardin F, Hecht R, Smith D, Delwart E, Pilcher C, Richman D, Busch M, Giachetti C. Detection of HIV-1 in alternative specimen types using the APTIMA® HIV-1 RNA Qualitative Assay. *Journal of virological methods*. 2009;159(1):10-4.
60. Butler DM, Pacold ME, Jordan PS, Richman DD, Smith DM. The efficiency of single genome amplification and sequencing is improved by quantitation and use of a bioinformatics tool. *Journal of virological methods*. 2009;162(1):280-3.
61. Mehta SR, MacGruder C, Looney D, Johns S, Smith DM. Differences in tuberculin reactivity as determined in a veterans administration employee health screening program. *Clinical and Vaccine Immunology*. 2009;16(4):541-3.
62. Jordan PS, Poon A, Eron J, Squires K, Ignacio C, Richman DD, Smith DM. A novel codon insert in protease of clade B HIV type 1. *AIDS research and human retroviruses*. 2009;25(5):547-50.
63. Goicoechea M, Smith D, May S, Mathews C, Spina C. Prevalence and T cell phenotype of slow HIV disease progressors with robust HIV replication. *Journal of acquired immune deficiency syndromes (1999)*. 2009;52(2):299.
64. Manosuthi W, Butler D, Chantratita W, Sukasem C, Richman D, Smith D, editors. Mutations associated with etravirine resistance among patients infected with HIV-1 subtype CRF01_AE and failing first-line nevirapine-and efavirenz-based regimens. *ANTIVIRAL THERAPY*; 2009: INT MEDICAL PRESS LTD 2-4 IDOL LANE, LONDON EC3R 5DD, ENGLAND.
65. Smith D, May S, Tweeten S, Drumright L, Pacold M, Kosakovsky Pond SL, Pesano RL, Lie YS, Richman DD, Frost SD, Woelk CH, Little SJ. A public health model for the molecular surveillance of HIV transmission in San Diego, California *AIDS*. 2009;23:225-32.
66. Butler DM, Delport W, Pond SLK, Lakdawala MK, Cheng PM, Little SJ, Richman DD, Smith DM. The origins of sexually transmitted HIV among men who have sex with men. *Science translational medicine*. 2010;2(18):18re1-re1.

67. DeGruttola V, Smith DM, Little SJ, Miller V. Developing and evaluating comprehensive HIV infection control strategies: issues and challenges. *Clinical Infectious Diseases*. 2010;50(Supplement 3):S102-S7.
68. Pacold M, Smith D, Little S, Cheng PM, Jordan P, Ignacio C, Richman D, Pond SK. Comparison of methods to detect HIV dual infection. *AIDS research and human retroviruses*. 2010;26(12):1291-8.
69. May S, Gamst A, Haubrich R, Benson C, Smith DM. Pooled nucleic acid testing to identify antiretroviral treatment failure during HIV infection. *Journal of acquired immune deficiency syndromes (1999)*. 2010;53(2):194.
70. Manosuthi W, Butler DM, Chantratita W, Sukasem C, Richman DD, Smith DM. Patients infected with HIV type 1 subtype CRF01_AE and failing first-line nevirapine-and efavirenz-based regimens demonstrate considerable cross-resistance to etravirine. *AIDS research and human retroviruses*. 2010;26(6):609-11.
71. Morris SR, Little SJ, Cunningham T, Garfein RS, Richman DD, Smith DM. Evaluation of an HIV nucleic acid testing program with automated Internet and voicemail systems to deliver results. *Annals of internal medicine*. 2010;152(12):778-85.
72. Manosuthi W, Butler DM, Perez-Santiago J, Poon AF, Pillai SK, Mehta SR, Pacold ME, Richman DD, Pond SK, Smith DM. Protease polymorphisms in HIV-1 subtype CRF01_AE represent selection by antiretroviral therapy and host immune pressure. *AIDS (London, England)*. 2010;24(3):411.
73. Woelk CH, Beliakova-Bethell N, Goicoechea M, Zhao Y, Du P, Rought SE, Lozach J, Pérez-Santiago J, Richman DD, Smith DM. Gene expression before HAART initiation predicts HIV-infected individuals at risk of poor CD4+ T-cell recovery. *AIDS (London, England)*. 2010;24(2):217.
74. Mehta SR, Delport W, Brouwer KC, Espitia S, Patterson T, Pond SK, Strathdee SA, Smith DM. The relatedness of HIV epidemics in the United States–Mexico border region. *AIDS research and human retroviruses*. 2010;26(12):1273-7.
75. Smith D, Delport W, Butler D, Little S, Richman D, Pond SK. Response to Comment on "The Origins of Sexually Transmitted HIV Among Men Who Have Sex with Men". *Science translational medicine*. 2010;2(50):50lr1-Ir1.
76. Fierer DS, Dieterich DT, Fiel IM, Branch AD, Hsu RK, Marks KM, Fusco D, Smith DM, Fierer J. Rapid Progression To Decompensated Cirrhosis And Death In Hiv-infected Men With Newlyacquired Hcv Infection. *Hepatology*. 2010;52:743A.
77. Rieg G, Butler D, Smith D, Daar E. Seminal plasma HIV levels in men with asymptomatic sexually transmitted infections. *International journal of STD & AIDS*. 2010;21(3):207-8.
78. Gianella S, Delport W, Pacold ME, Young JA, Choi JY, Little SJ, Richman DD, Pond SLK, Smith DM. Detection of minority resistance during early HIV-1 infection: natural variation and spurious detection rather than transmission and evolution of multiple viral variants. *Journal of virology*. 2011;JVI. 02582-10.
79. Homann S, Smith D, Little S, Richman D, Guatelli J. Upregulation of BST-2/tetherin by HIV infection in vivo. *Journal of virology*. 2011;85(20):10659-68.
80. van Zyl G, Preiser W, Potschka S, Lundershausen A, Haubrich R, Smith D. Pooling strategies to reduce the cost of HIV-1 RNA load monitoring in a resource-limited setting. *Clinical Infectious Diseases*. 2011;52(2):264-70.
81. Moore DJ, Letendre SL, Morris S, Umlauf A, Deutsch R, Smith DM, Little S, Rooney A, Franklin DR, Gouaux B. Neurocognitive functioning in acute or early HIV infection. *Journal of neurovirology*. 2011;17(1):50-7.

82. Tilghman MW, Guereña DD, Licea A, Pérez-Santiago J, Richman DD, May S, Smith DM. Pooled nucleic acid testing to detect antiretroviral treatment failure in Mexico. *Journal of acquired immune deficiency syndromes* (1999). 2011;56(3):e70.
83. Mehta SR, Wertheim JO, Delpont W, Ene L, Tardei G, Duiculescu D, Pond SLK, Smith DM. Using phylogeography to characterize the origins of the HIV-1 subtype F epidemic in Romania. *Infection, Genetics and Evolution*. 2011;11(5):975-9.
84. Keller SB, Smith DM. The price of tenofovir-emtricitabine undermines the cost-effectiveness and advancement of pre-exposure prophylaxis. *AIDS* (London, England). 2011;25(18).
85. Mehta SR, Nguyen VT, Osorio G, Little S, Smith DM. Evaluation of pooled rapid HIV antibody screening of patients admitted to a San Diego Hospital. *Journal of virological methods*. 2011;174(1):94-8.
86. Karris MA, Smith DM. Tissue-specific HIV-1 infection: why it matters. *Future virology*. 2011;6(7):869-82.
87. Saravanan S, Madhavan V, Murugavel KG, Balakrishnan P, Solomon SS, Umapathy S, Kantor R, Kumarasamy N, Yepthomi T, Smith DM. The Association between HIV-1 Subtype C Antiretroviral Resistance and HLA Prevalence in Southern India. *JAIDS Journal of Acquired Immune Deficiency Syndromes*. 2011;57(1):e17-e9.
88. Kim D, Lyoo KS, Smith D, Hur W, Hong SW, Sung PS, Yoon SK, Mehta S. Number of mutations within CTL-defined epitopes of the hepatitis B Virus (HBV) core region is associated with HBV disease progression. *Journal of medical virology*. 2011;83(12):2082-7.
89. Saravanan S, Madhavan V, Balakrishnan P, Solomon SS, Kumarasamy N, Mayer KH, Waldrop G, Solomon S, Smith DM. HIV-1 Reverse Transcriptase Nucleotide Substitutions in Subtype C Infected Drug Naïve and Treatment Experienced Patients in South India. *Journal of acquired immune deficiency syndromes* (1999). 2011;58(3):e94.
90. Jeong J, Kim S-R, Lee SH, Lim J-H, Choi JI, Park JS, Chang CL, Choi JY, Richman DD, Smith DM. The use of high performance liquid chromatography to speciate and characterize the epidemiology of mycobacteria. *Laboratory medicine*. 2011;42(10): 612-7.
91. Gianella S, Strain MC, Rought SE, Vargas MV, Little SJ, Richman DD, Spina CA, Smith DM. Associations between virologic and immunologic dynamics in blood and in the male genital tract. *J Virol*. 2012 Feb; 86(3):1307-15. doi: 10.1128/JVI.06077-11. PMID: 22114342; PMC3264378.
92. Fisher R, van Zyl GU, Travers SA, Kosakovsky Pond SL, Engelbrech S, Murrell B, Scheffler K, Smith D. Deep sequencing reveals minor protease resistance mutations in patients failing a protease inhibitor regimen. *J Virol*. 2012 Jun; 86(11):6231-7. doi: 10.1128/JVI.06541-11. PMID: 22457522; PMC3372173.
93. Pacold ME, Pond SL, Wagner GA, Delpont W, Bourque DL, Richman DD, Little SJ, Smith DM. Clinical, virologic, and immunologic correlates of HIV-1 intracrine B dual infection among men who have sex with men. *AIDS*. 2012 Jan 14; 26(2):157-65. doi: 10.1097/QAD.0b013e32834dcd26. PMID: 22045341; PMC3807679.
94. Karris MY, Anderson CM, Morris SR, Smith DM, Little SJ. Cost savings associated with testing of antibodies, antigens, and nucleic acids for diagnosis of acute HIV infection. *Journal of clinical microbiology*. 2012; 50(6):1874-8. PMID: 22442319; PMC3372146.
95. Zhang Y, Qiao L, Ding W, Wei F, Zhao Q, Wang X, Shi Y, Li N, Smith D, Chen D. An initial screening for HIV-associated neurocognitive disorders of HIV-1 infected patients in China. *Journal of neurovirology*. 2012; 18(2):120-6. PMID: 22411002; PMC3859527.

96. Gianella S, Mehta SR, Strain MC, Young JA, Vargas MV, Little SJ, Richman DD, Pond SLK, Smith DM. Impact of seminal cytomegalovirus replication on HIV-1 dynamics between blood and semen. *Journal of medical virology*. 2012; 84(11):1703-9. PMID: 2299707 PMC3472447
97. Bharti AR, Saravanan S, Madhavan V, Smith DM, Sharma J, Balakrishnan P, Letendre SL, Kumarasamy N. Correlates of HIV and malaria co-infection in Southern India. *Malaria journal*. 2012; 11(1):306. PMID: 22943054; PMC3504568.
98. Saravanan S, Madhavan V, Kantor R, Sivamalar S, Gomathi S, Solomon SS, Kumarasamy N, Smith DM, Schooley RT, Solomon S. Unusual Insertion and deletion at codon 67 and 69 of HIV type 1 subtype C reverse transcriptase among first-line highly active antiretroviral treatment-failing South Indian patients: association with other resistance mutations. *AIDS research and human retroviruses*. 2012; 28(12):1763-5. PMID: 22404052; PMC3505055.
99. Tilghman MW, May S, Pérez-Santiago J, Ignacio CC, Little SJ, Richman DD, Smith DM. A combined screening platform for HIV treatment failure and resistance. *PloS one*. 2012; 7(4):e35401. PMID: 22563383; PMC3338506.
100. Homann S, Smith D, Little S, Richman D, Guatelli J. Upregulation of BST-2/Tetherin by HIV infection in vivo. *J Virol*. 2011 Oct; 85(20):10659-68. doi: 10.1128/JVI.05524-11. PMID: 21849457; PMC3187519.
101. Gianella S, Mehta SR, Young JA, Vargas MV, Little SJ, Richman DD, Pond SLK, Smith DM. Sexual transmission of predicted CXCR4-tropic HIV-1 likely originating from the source partner's seminal cells. *Virology*. 2012; 434(1):2-4. PMID: 23040890; PMC3485073.
102. Shi Y, Wei F, Hu D, Li Q, Smith D, Li N, Chen D. Mutations in the major hydrophilic region (MHR) of hepatitis B virus genotype C in North China. *Journal of medical virology*. 2012; 84(12):1901-6. PMID: 23080494; PMC3747822.
103. Mehta SR, Kosakovsky Pond SL, Young JA, Richman D, Little S, Smith DM. Associations between phylogenetic clustering and HLA profile among HIV-infected individuals in San Diego, California. *J Infect Dis*. 2012 May 15; 205(10):1529-33. doi: 10.1093/infdis/jis231. PMID: 22448013; PMC3415817.
104. Saravanan S, Madhavan V, Solomon SS, Kantor R, Katzenstein D, Sivamalar S, Kumarasamy N, Smith DM, Mayer KH, Solomon S. Reverse Transcriptase (RT) Substitution at Codons 208 and 228 Among Treatment-experienced HIV-1 Subtype-C Infected Indian Patients Is Strongly Associated with Thymidine Analogue Mutations (TAMs). *Journal of acquired immune deficiency syndromes (1999)*. 2012; 59(2):e26. PMC3259528
105. Orlov M, Vaida F, Finney OC, Smith DM, Talley AK, Wang R, Kappe SH, Deng Q, Schooley RT, Duffy PE. *P. falciparum* enhances HIV replication in an experimental malaria challenge system. *PloS one*. 2012;7(6):e39000. PMC3383717
106. Le T, Wright EJ, Smith DM, He W, Catano G, Okulicz JF, Young JA, Clark RA, Richman DD, Little SJ, Ahuja SK. Enhanced CD4+ T-cell recovery with earlier HIV-1 antiretroviral therapy. *N Engl J Med*. 2013 Jan 17; 368(3):218-30. doi: 10.1056/NEJMoa1110187. PMID: 23323898; PMC3657555.
107. Gianella S, Morris SR, Anderson C, Spina CA, Vargas MV, Young JA, Richman DD, Little SJ, Smith DM. Herpes viruses and HIV-1 drug resistance mutations influence the virologic and immunologic milieu of the male genital tract. *AIDS*. 2013 Jan 2; 27(1):39-47. doi: 10.1097/QAD.0b013e3283573305. PMID: 22739399; PMC3769229.
108. Gianella S, Smith DM, Vargas MV, Little SJ, Richman DD, Daar ES, Dube MP, Zhang F, Ginocchio CC, Haubrich RH, Morris SR; CCTG 592 Team. Shedding of HIV and human herpesviruses in the semen of

effectively treated HIV-1-infected men who have sex with men. *Clin Infect Dis*. 2013 Aug; 57(3):441-7. doi: 10.1093/cid/cit252. PMID: 23595831; PMC3703105.

109. Gianella S, Anderson CM, Vargas MV, Richman DD, Little SJ, Morris SR, Smith DM. Cytomegalovirus DNA in semen and blood is associated with higher levels of proviral HIV DNA. *J Infect Dis*. 2013 Mar 15; 207(6):898-902. doi: 10.1093/infdis/jis777. PMID: 23275608; PMC3571441.
110. Gianella S, Morris SR, Vargas MV, Young JA, Callahan B, Richman DD, Little SJ, Smith DM. Role of seminal shedding of herpesviruses in HIV Type 1 Transmission. *J Infect Dis*. 2013 Jan 15; 207(2):257-61. doi: 10.1093/infdis/jis683. PMID: 23148284; PMC3532824.
111. Fierer DS, Dieterich DT, Fiel MI, Branch AD, Marks KM, Fusco DN, Hsu R, Smith DM, Fierer J. Rapid progression to decompensated cirrhosis, liver transplant, and death in HIV-infected men after primary hepatitis C virus infection. *Clin Infect Dis*. 2013 Apr; 56(7):1038-43. doi: 10.1093/cid/cis1206. PMID: 23264364; PMC3588118.
112. Wertheim JO, Scheffler K, Choi JY, Smith DM, Kosakovsky Pond SL. Phylogenetic relatedness of HIV-1 donor and recipient populations. *J Infect Dis*. 2013 Apr; 207(7):1181-2. doi: 10.1093/infdis/jit021. PMID: 23315327; PMC3583277.
113. Saravanan S, Madhavan V, Balakrishnan P, Smith DM, Solomon SS, Sivamalar S, Poongulali S, Kumarasamy N, Schooley RT, Solomon S, Kantor R. Darunavir is a good third-line antiretroviral agent for HIV type 1-infected patients failing second-line protease inhibitor-based regimens in South India. *AIDS Res Hum Retroviruses*. 2013 Mar; 29(3):630-2. doi: 10.1089/AID.2011.0334. PMID: 23045961; PMC3581023.
114. Gianella S, Morris SR, Tatro E, Vargas MV, Haubrich RH, Daar ES, Dube MP, Richman DD, Little SJ, Smith DM. Virologic correlates of anti-CMV IgG levels in HIV-1-infected men. *J Infect Dis*. 2014 Feb 1; 209(3):452-6. doi: 10.1093/infdis/jit434. PMID: 23964106; PMC3883163.
115. Hightower GK, May SJ, Pérez-Santiago J, Pacold ME, Wagner GA, Little SJ, Richman DD, Mehta SR, Smith DM, Pond SLK. HIV-1 clade B pol evolution following primary infection. *PloS one*. 2013; 8(6):e68188. PMID: 23840830; PMC3695957.
116. Wagner GA, Pacold ME, Kosakovsky Pond SL, Caballero G, Chaillon A, Rudolph AE, Morris SR, Little SJ, Richman DD, Smith DM. Incidence and prevalence of intrasubtype HIV-1 dual infection in at-risk men in the United States. *J Infect Dis*. 2014 Apr 1; 209(7):1032-8. doi: 10.1093/infdis/jit633. Erratum in: *J Infect Dis*. 2014 Oct 1; 210(7):1166. PMID: 24273040; PMC3952674.
117. Morris SR, Woods SP, Deutsch R, Little SJ, Wagner G, Morgan EE, Heaton RK, Letendre SL, Grant I, Smith DM. Dual-mixed HIV-1 coreceptor tropism and HIV-associated neurocognitive deficits. *J Neurovirol*. 2013 Oct; 19(5):488-94. PMID: 24078557; PMC3921071.
118. Wagner GA, Pacold ME, Vigil E, Caballero G, Morris SR, Pond SLK, Little SJ, Richman DD, Gianella S, Smith DM. Using ultradeep pyrosequencing to study HIV-1 coreceptor usage in primary and dual infection. *Journal of Infectious Diseases*. 2013; 208(2):271-4. PMID: 23599311; PMC3685231.
119. Morris SR, Smith DM, Little SJ, Gianella S. Reply to Mounzer and DiNubile. *J Infect Dis*. 2013 Aug 15; 208(4):711-2. doi: 10.1093/infdis/jit218. PMID: 23667136; PMC3719903.
120. Kim H, Ku NS, Kim SB, Jeong SJ, Han SH, Kim JM, Smith DM, Choi JY. Simulation of pooled nucleic acid testing to identify antiretroviral treatment failure during HIV infection in Seoul, South Korea. *J Acquir Immune Defic Syndr*. 2013 Mar 1; 62(3):e104-5. doi: 10.1097/QAI.0b013e31827e8cc8. PMID: 23924640; PMC3873092.

121. Yuan L, Qiao L, Wei F, Yin J, Liu L, Ji Y, Smith D, Li N, Chen D. Cytokines in CSF correlate with HIV-associated neurocognitive disorders in the post-HAART era in China. *J Neurovirol.* 2013 Apr; 19(2):144-9. doi: 10.1007/s13365-013-0150-5. PMID: 23389619; PMC4363104.
122. de Almeida SM, Ribeiro CE, de Pereira AP, Badiee J, Cherner M, Smith D, Maich I, Raboni SM, Rotta I, Barbosa FJ, Heaton RK, Umlauf A, Ellis RJ. Neurocognitive impairment in HIV-1 clade C- versus B-infected individuals in Southern Brazil. *J Neurovirol.* 2013 Dec; 19(6):550-6. doi: 10.1007/s13365-013-0215-5. PMID: 24277437; PMC3923762.
123. Noormahomed EV, Mocumbi AO, Preziosi M, Damasceno A, Bickler S, Smith DM, Funzamo C, Aronoff-Spencer E, Badaró R, Mabila F, Bila D, Nguenha A, Do Rosário V, Benson CA, Schooley RT, Patel S, Ferrão LJ, Carrilho C. Strengthening research capacity through the medical education partnership initiative: the Mozambique experience. *Hum Resour Health.* 2013 Dec 5; 11:62. doi: 10.1186/1478-4491-11-62. PMID: 24304706; PMC3895849.
124. Desplats P, Dumaop W, Smith D, Adame A, Everall I, Letendre S, Ellis R, Cherner M, Grant I, Masliah E. Molecular and pathologic insights from latent HIV-1 infection in the human brain. *Neurology.* 2013 Apr 9; 80(15):1415-23. doi: 10.1212/WNL.0b013e31828c2e9e. PMID: 23486877; PMC3662272.
125. Chaillon A, Wagner GA, Hepler NL, Little SJ, Kosakovsky Pond SL, Caballero G, Pacold ME, Phung P, Wrin T, Richman DD, Wertheim JO, Smith DM. Dynamics of viral evolution and neutralizing antibody response after HIV-1 superinfection. *J Virol.* 2013 Dec; 87(23):12737-44. doi: 10.1128/JVI.02260-13. PMID: 24049166; PMC3838120.
126. Perez-Santiago J, Gianella S, Massanella M, Spina CA, Karris MY, Var SR, Patel D, Jordan PS, Young JA, Little SJ, Richman DD, Smith DM. Gut Lactobacillales are associated with higher CD4 and less microbial translocation during HIV infection. *AIDS.* 2013; 27(12):1921-31. PMID: 24180001; PMC3816380.
127. Doyle KL, Morgan EE, Morris S, Smith DM, Little S, Iudicello JE, Blackstone K, Moore DJ, Grant I, Letendre SL, Woods SP; Translational Methamphetamine AIDS Research Center (TMARC) Group. Real-world impact of neurocognitive deficits in acute and early HIV infection. *J Neurovirol.* 2013 Dec; 19(6):565-73. doi: 10.1007/s13365-013-0218-2. PMID: 24277439; PMC3865175.
128. Tang MW, Rhee SY, Bertagnolio S, Ford N, Holmes S, Sigaloff KC, Hamers RL, de Wit TF, Fleury HJ, Kanki PJ, Ruxrungtham K, Hawkins CA, Wallis CL, Stevens W, van Zyl GU, Manosuthi W, Hosseinipour MC, Ngo-Giang-Huong N, Belec L, Peeters M, Aghokeng A, Bunupuradah T, Burda S, Cane P, Cappelli G, Charpentier C, Dagnra AY, Deshpande AK, El-Katib Z, Eshleman SH, Fokam J, Gody JC, Katzenstein D, Koyalta DD, Kumwenda JJ, Lalletant M, Lynen L, Marconi VC, Margot NA, Moussa S, Ndung'u T, Nyambi PN, Orrell C, Schapiro JM, Schuurman R, Sirivichayakul S, Smith D, Zolfo M, Jordan MR, Shafer RW. Nucleoside reverse transcriptase inhibitor resistance mutations associated with first-line stavudine-containing antiretroviral therapy: programmatic implications for countries phasing out stavudine. *J Infect Dis.* 2013 Jun 15; 207 Suppl 2:S70-7. doi: 10.1093/infdis/jit114. PMID: 23687292; PMC3657117.
129. Morgan EE, Woods SP, Letendre SL, Franklin DR, Bloss C, Goate A, Heaton RK, Collier AC, Marra CM, Gelman BB, McArthur JC, Morgello S, Simpson DM, McCutchan JA, Ellis RJ, Abramson I, Gamst A, Fennema-Notestine C, Smith DM, Grant I, Vaida F, Clifford DB; CNS HIV Antiretroviral Therapy Effects Research (CHARTER) Group. Apolipoprotein E4 genotype does not increase risk of HIV-associated neurocognitive disorders. *J Neurovirol.* 2013 Apr; 19(2):150-6. doi: 10.1007/s13365-013-0152-3. PMID: 23408335; PMC3668779.
130. Weber E, Morgan EE, Iudicello JE, Blackstone K, Grant I, Ellis RJ, Letendre SL, Little S, Morris S, Smith DM, Moore DJ, Woods SP; TMARC Group.. Substance use is a risk factor for neurocognitive deficits and neuropsychiatric distress in acute and early HIV infection. *J Neurovirol.* 2013 Feb; 19(1):65-74. doi: 10.1007/s13365-012-0141-y. PMID: 23250704; PMC3568179.

131. Wertheim JO, Leigh Brown AJ, Hepler NL, Mehta SR, Richman DD, Smith DM, Kosakovsky Pond SL. The global transmission network of HIV-1. *J Infect Dis*. 2014 Jan 15; 209(2):304-13. doi: 10.1093/infdis/jit524. PMID: 24151309; PMC3873788.
132. Chaillon A, Gianella S, Vazquez H, Ignacio C, Zweig AC, Richman DD, Smith DM. Novel codon insert in HIV type 1 clade B reverse transcriptase associated with low-level viremia during antiretroviral therapy. *AIDS Res Hum Retroviruses*. 2014 Feb; 30(2):165-9. doi: 10.1089/AID.2013.0202. PMID: 24020934; PMC3910474.
133. Tatro ET, Purnajo I, Richman DD, Smith DM, Gianella S. Antibody response to *Achromobacter xylosoxidans* during HIV infection is associated with lower CD4 levels and increased lymphocyte activation. *Clin Vaccine Immunol*. 2014 Jan; 21(1):46-50. doi: 10.1128/CVI.00553-13. PMID: 24173027; PMC3910916.
134. Jeong SJ, Kim MH, Song JE, Ahn JY, Kim SB, Ann HW, Kim JK, Choi H, Ku NS, Han SH, Kim JM, Smith DM, Kim HS, Choi JY. Short communication: prospective comparison of qualitative versus quantitative polymerase chain reaction for monitoring virologic treatment failure in HIV-infected patients. *AIDS Res Hum Retroviruses*. 2014 Aug; 30(8):827-9. doi: 10.1089/AID.2013.0227. PMID: 24724838; PMC4118713.
135. Karris MY, Kao YT, Patel D, Dawson M, Woods SP, Vaida F, Spina C, Richman D, Little S, Smith DM. Predictors of virologic response in persons who start antiretroviral therapy during recent HIV infection. *AIDS*. 2014 Mar 27; 28(6):841-9. doi: 10.1097/QAD.000000000000149. PMID: 24401640; PMC4049563.
136. Saravanan S, Madhavan V, Velu V, Murugavel KG, Waldrop G, Solomon SS, Balakrishnan P, Kumarasamy N, Smith DM, Mayer KH, Solomon S, Thyagarajan SP. High prevalence of hepatitis delta virus among patients with chronic hepatitis B virus infection and HIV-1 in an intermediate hepatitis B virus endemic region. *J Int Assoc Provid AIDS Care*. 2014 Jan-Feb; 13(1):85-90. doi: 10.1177/2325957413488166. PMID: 23722085; PMC4114572.
137. Tilghman MW, Bhattacharya J, Deshpande S, Ghate M, Espitia S, Grant I, Marcotte TD, Smith D, Mehendale S. Genetic attributes of blood-derived subtype-C HIV-1 tat and env in India and neurocognitive function. *J Med Virol*. 2014 Jan; 86(1):88-96. doi: 10.1002/jmv.23816. PMID: 24150902; PMC3872113.
138. Kim SB, Kim HW, Kim HS, Ann HW, Kim JK, Choi H, Kim MH, Song JE, Ahn JY, Ku NS, Oh DH, Kim YC, Jeong SJ, Han SH, Kim JM, Smith DM, Choi JY. Pooled nucleic acid testing to identify antiretroviral treatment failure during HIV infection in Seoul, South Korea. *Scand J Infect Dis*. 2014 Feb; 46(2):136-40. doi: 10.3109/00365548.2013.851415. PMID: 24228824; PMC3894056.
139. Dillon SM, Lee EJ, Kotter CV, Austin GL, Dong Z, Hecht DK, Gianella S, Siewe B, Smith DM, Landay AL, Robertson CE, Frank DN, Wilson CC. An altered intestinal mucosal microbiome in HIV-1 infection is associated with mucosal and systemic immune activation and endotoxemia. *Mucosal Immunol*. 2014 Jul; 7(4):983-94. doi: 10.1038/mi.2013.116. PMID: 24399150; PMC4062575.
140. Little SJ, Kosakovsky Pond SL, Anderson CM, Young JA, Wertheim JO, Mehta SR, May S, Smith DM. Using HIV networks to inform real time prevention interventions. *PLoS One*. 2014 Jun 5; 9(6):e98443. doi: 10.1371/journal.pone.0098443. PMID: 24901437; PMC4047027.
141. Wertheim JO, Smith MD, Smith DM, Scheffler K, Kosakovsky Pond SL. Evolutionary origins of human herpes simplex viruses 1 and 2. *Mol Biol Evol*. 2014 Sep; 31(9):2356-64. doi: 10.1093/molbev/msu185. Epub 2014 Jun 10. PMID: 24916030; PMC4137711.

142. King HL, Keller SB, Giancola MA, Rodriguez DA, Chau JJ, Young JA, Little SJ, Smith DM. Pre-exposure prophylaxis accessibility research and evaluation (PrEPARE Study). *AIDS Behav.* 2014 Sep; 18(9):1722-5. doi: 10.1007/s10461-014-0845-5. PMID: 25017425; PMC4127131.
143. Rotta Rotta I, Raboni SM, Ribeiro CE, Riedel M, Winhescki Mda G, Smith DM, Ellis RJ, de Almeida SM. Cerebrospinal fluid can be used for HIV genotyping when it fails in blood. *Arq Neuropsiquiatr.* 2014 Jul; 72(7):506-9. PMID: 25054982; PMC4139176.
144. Hepler NL, Scheffler K, Weaver S, Murrell B, Richman DD, Burton DR, Poignard P, Smith DM, Kosakovsky Pond SL. IDEPI: rapid prediction of HIV-1 antibody epitopes and other phenotypic features from sequence data using a flexible machine learning platform. *PLoS Comput Biol.* 2014 Sep 25; 10(9):e1003842. doi: 10.1371/journal.pcbi.1003842. PMID: 25254639; PMC4177671.
145. Grant I, Franklin DR Jr, Deutsch R, Woods SP, Vaida F, Ellis RJ, Letendre SL, Marcotte TD, Atkinson JH, Collier AC, Marra CM, Clifford DB, Gelman BB, McArthur JC, Morgello S, Simpson DM, McCutchan JA, Abramson I, Gamst A, Fennema-Notestine C, Smith DM, Heaton RK; CHARTER Group.. Asymptomatic HIV-associated neurocognitive impairment increases risk for symptomatic decline. *Neurology.* 2014 Jun 10; 82(23):2055-62. doi: 10.1212/WNL.0000000000000492. PMID: 24814848; PMC4118496.
146. Tilghman MW, Pérez-Santiago J, Osorio G, Little SJ, Richman DD, Mathews WC, Haubrich RH, Smith DM. Community HIV-1 drug resistance is associated with transmitted drug resistance. *HIV Med.* 2014 Jul; 15(6):339-46. doi: 10.1111/hiv.12122. PMID: 24417811; PMC4055747.
147. Chaillon A, Gianella S, Wertheim JO, Richman DD, Mehta SR, Smith DM. HIV migration between blood and cerebrospinal fluid or semen over time. *J Infect Dis.* 2014 May 15; 209(10):1642-52. doi: 10.1093/infdis/jit678. PMID: 24302756; PMC3997580.
148. Orlov Orlov M, Vaida F, Williamson K, Deng Q, Smith DM, Duffy PE, Schooley RT. Antigen-presenting phagocytic cells ingest malaria parasites and increase HIV replication in a tumor necrosis factor α -dependent manner. *J Infect Dis.* 2014 Nov 15; 210(10):1562-72. doi: 10.1093/infdis/jiu317. PMID: 24903666; PMC4215075.
149. Desplats P, Dumaop W, Cronin P, Gianella S, Woods S, Letendre S, Smith D, Masliah E, Grant I. Epigenetic alterations in the brain associated with HIV-1 infection and methamphetamine dependence. *PLoS One.* 2014 Jul 23; 9(7):e102555. doi: 10.1371/journal.pone.0102555. PMID: 25054922; PMC4108358.
150. Ku NS, Lee Y, Ahn JY, Song JE, Kim MH, Kim SB, Jeong SJ, Hong KW, Kim E, Han SH, Song JY, Cheong HJ, Song YG, Kim WJ, Kim JM, Smith DM, Choi JY. HIV-associated neurocognitive disorder in HIV-infected Koreans: the Korean NeuroAIDS Project. *HIV Med.* 2014 Sep; 15(8):470-7. doi: 10.1111/hiv.12137. PMID: 24580888; PMC4140963.
151. Kim SB, Yoon M, Ku NS, Kim MH, Song JE, Ahn JY, Jeong SJ, Kim C, Kwon HD, Lee J, Smith DM, Choi JY. Mathematical modeling of HIV prevention measures including pre-exposure prophylaxis on HIV incidence in South Korea. *PLoS One.* 2014 Mar 24; 9(3):e90080. doi: 10.1371/journal.pone.0090080. PMID: 24662776; PMC3963840.
152. de Oliveira MF, Murrell B, Pérez-Santiago J, Vargas M, Ellis RJ, Letendre S, Grant I, Smith DM, Woods SP, Gianella S. Circulating HIV DNA Correlates With Neurocognitive Impairment in Older HIV-infected Adults on Suppressive ART. *Sci Rep.* 2015 Nov 25; 5:17094. doi: 10.1038/srep17094. Erratum in: *Sci Rep.* 2016; 6:19387. Murrel, Ben [corrected to Murrell, Ben]. PMID: 26603568; PMC4658529.
153. Gianella S, Massanella M, Richman DD, Little SJ, Spina CA, Vargas MV, Lada SM, Daar ES, Dube MP, Haubrich RH, Morris SR, Smith DM; California Collaborative Treatment Group 592 Team.. Cytomegalovirus replication in semen is associated with higher levels of proviral HIV DNA and CD4+ T cell

activation during antiretroviral treatment. *J Virol*. 2014 Jul; 88(14):7818-27. doi: 10.1128/JVI.00831-14. PMID: 24789781; PMC4097769.

154. Carter CC, Wagner GA, Hightower GK, Caballero G, Phung P, Richman DD, Pond SL, Smith DM. HIV-1 neutralizing antibody response and viral genetic diversity characterized with next generation sequencing. *Virology*. 2015 Jan 1; 474:34-40. doi: 10.1016/j.virol.2014.10.019. PMID: 25463602; PMC4259848.
155. Fisher RG, Smith DM, Murrell B, Slabbert R, Kirby BM, Edson C, Cotton MF, Haubrich RH, Kosakovsky Pond SL, Van Zyl GU. Next generation sequencing improves detection of drug resistance mutations in infants after PMTCT failure. *J Clin Virol*. 2015 Jan; 62:48-53. doi: 10.1016/j.jcv.2014.11.014. PMID: 25542470; PMC4279108.
156. Okulicz JF, Le TD, Agan BK, Camargo JF, Landrum ML, Wright E, Dolan MJ, Ganesan A, Ferguson TM, Smith DM, Richman DD, Little SJ, Clark RA, He W, Ahuja SK. Influence of the timing of antiretroviral therapy on the potential for normalization of immune status in human immunodeficiency virus 1-infected individuals. *JAMA Intern Med*. 2015 Jan; 175(1):88-99. doi: 10.1001/jamainternmed.2014.4010. PMID: 25419650; PMC4286496.
157. Ene L, Duiculescu D, Tardei G, Ruta S, Smith DM, Mehta S, Letendre S, Achim CL. Hepatitis B virus compartmentalization in the cerebrospinal fluid of HIV-infected patients. *Clin Microbiol Infect*. 2015 Apr; 21(4):387.e5-8. doi: 10.1016/j.cmi.2014.11.012. PMID: 25658525; PMC4424164.
158. Murrell B, Weaver S, Smith MD, Wertheim JO, Murrell S, Aylward A, Eren K, Pollner T, Martin DP, Smith DM, Scheffler K, Kosakovsky Pond SL. Gene-wide identification of episodic selection. *Mol Biol Evol*. 2015 May; 32(5):1365-71. doi: 10.1093/molbev/msv035. PMID: 25701167; PMC4408417.
159. Gianella S, Massanella M, Wertheim JO, Smith DM. The Sordid Affair Between Human Herpesvirus and HIV. *J Infect Dis*. 2015 Sep 15; 212(6):845-52. doi: 10.1093/infdis/jiv148. PMID: 25748324; PMC4548466.
160. Li JZ, Smith DM, Mellors JW. The need for treatment interruption studies and biomarker identification in the search for an HIV cure. *AIDS*. 2015 Jul 31; 29(12):1429-32. doi: 10.1097/QAD.0000000000000658. PMID: 25870989; PMC4529360.
161. Hoenigl M, Weibel N, Mehta SR, Anderson CM, Jenks J, Green N, Gianella S, Smith DM, Little SJ. Development and validation of the San Diego Early Test Score to predict acute and early HIV infection risk in men who have sex with men. *Clin Infect Dis*. 2015 Aug 1; 61(3):468-75. doi: 10.1093/cid/civ335. PMID: 25904374; PMC4542926.
162. Chin BS, Shin HS, Kim G, Wagner GA, Gianella S, Smith DM. Short Communication: Increase of HIV-1 K103N Transmitted Drug Resistance and Its Association with Efavirenz Use in South Korea. *AIDS Res Hum Retroviruses*. 2015 Jun; 31(6):603-7. doi: 10.1089/AID.2014.0368. PMID: 25826122; PMC4516954.
163. Gianella S, Smith DM, Daar ES, Dube MP, Lisco A, Vanpouille C, Margolis L, Haubrich RH, Morris SR. Genital Cytomegalovirus Replication Predicts Syphilis Acquisition among HIV-1 Infected Men Who Have Sex with Men. *PLoS One*. 2015 Jun 10; 10(6):e0130410. doi: 10.1371/journal.pone.0130410. PMID: 26061824; PMC4465639.
164. Gianella S, Scheffler K, Mehta SR, Little SJ, Freitas L, Morris SR, Smith DM. Seminal shedding of CMV and HIV transmission among men who have sex with men. *International journal of environmental research and public health*. 2015; 12(7):7585-92. doi: 10.3390/ijerph120707585. PMID: 26198239; PMC4515676.
165. Gianella S, Anderson CM, Richman DD, Smith DM, Little SJ. No evidence of posttreatment control after early initiation of antiretroviral therapy. *AIDS*. 2015 Oct 23; 29(16):2093-7. doi: 10.1097/QAD.0000000000000816. PMID: 26544575; PMC4638137.

166. de Oliveira MF, Gianella S, Letendre S, Scheffler K, Kosakovsky Pond SL, Smith DM, Strain M, Ellis RJ. Comparative Analysis of Cell-Associated HIV DNA Levels in Cerebrospinal Fluid and Peripheral Blood by Droplet Digital PCR. *PLoS One*. 2015 Oct 2; 10(10):e0139510. doi: 10.1371/journal.pone.0139510. PMID: 26431315; PMC4592012.
167. Hoenigl M, Anderson CM, Green N, Mehta SR, Smith DM, Little SJ. Repeat HIV-testing is associated with an increase in behavioral risk among men who have sex with men: a cohort study. *BMC Med*. 2015 Sep 11; 13:218. doi: 10.1186/s12916-015-0458-5. PMID: 26444673; PMC4596465.
168. Tilghman M, Tsai D, Buene TP, Tomas M, Amade S, Gehlbach D, Chang S, Ignacio C, Caballero G, Espitia S, May S, Noormahomed EV, Smith DM. Pooled Nucleic Acid Testing to Detect Antiretroviral Treatment Failure in HIV-Infected Patients in Mozambique. *J Acquir Immune Defic Syndr*. 2015 Nov 1; 70(3):256-61. doi: 10.1097/QAI.0000000000000724. PMID: 26135327; PMC4607635.
169. de Oliveira MF, Murrell B, Pérez-Santiago J, Vargas M, Ellis RJ, Letendre S, Grant I, Smith DM, Woods SP, Gianella S. Circulating HIV DNA Correlates With Neurocognitive Impairment in Older HIV-infected Adults on Suppressive ART. *Sci Rep*. 2015 Nov 25; 5:17094. doi: 10.1038/srep17094. Erratum in: *Sci Rep*. 2016;6:19387. Murrell, Ben [corrected to Murrell, Ben]. PMID: 26603568; PMC4658529.
170. Mehta SR, Wertheim JO, Brouwer KC, Wagner KD, Chaillon A, Strathdee S, Patterson TL, Rangel MG, Vargas M, Murrell B, Garfein R, Little SJ, Smith DM. HIV Transmission Networks in the San Diego-Tijuana Border Region. *EBioMedicine*. 2015 Jul 18; 2(10):1456-63. doi: 10.1016/j.ebiom.2015.07.024. PMID: 26629540; PMC4634195.
171. Saravanan S, Gomathi S, Kausalya B, Boobalan J, Murugavel KG, Balakrishnan P, Mothi SN, Solomon SS, Kumarasamy N, Selvamuthu P, Solomon S, Smith DM. Differences in Evolution of HIV-1 Subtype C Reverse Transcriptase Between Children and Adults Likely Explained by Maturity of Cytotoxic T-Lymphocyte Responses. *AIDS Res Hum Retroviruses*. 2015 Jun; 31(6):655-7. doi: 10.1089/AID.2015.0023. PMID: 25839730; PMC4458742.
172. Wang X, Wu Y, Mao L, Xia W, Zhang W, Dai L, Mehta SR, Wertheim JO, Dong X, Zhang T, Wu H, Smith DM. Targeting HIV Prevention Based on Molecular Epidemiology Among Deeply Sampled Subnetworks of Men Who Have Sex With Men. *Clin Infect Dis*. 2015 Nov 1; 61(9):1462-8. doi: 10.1093/cid/civ526. PMID: 26129754; PMC4599390.
173. Rhee SY, Blanco JL, Jordan MR, Taylor J, Lemey P, Varghese V, Hamers RL, Bertagnolio S, Rinke de Wit TF, Aghokeng AF, Albert J, Avi R, Avila-Rios S, Bessong PO, Brooks JI, Boucher CA, Brumme ZL, Busch MP, Bussmann H, Chaix ML, Chin BS, D'Aquin TT, De Gascun CF, Derache A, Descamps D, Deshpande AK, Djoko CF, Eshleman SH, Fleury H, Frange P, Fujisaki S, Harrigan PR, Hattori J, Holguin A, Hunt GM, Ichimura H, Kaleebu P, Katzenstein D, Kiertiburanakul S, Kim JH, Kim SS, Li Y, Lutsar I, Morris L, Ndembu N, Ng KP, Paranjape RS, Peeters M, Poljak M, Price MA, Ragonnet-Cronin ML, Reyes-Terán G, Rolland M, Sirivichayakul S, Smith DM, Soares MA, Soriano VV, Ssemwanga D, Stanojevic M, Stefani MA, Sugiura W, Sungkanuparph S, Tanuri A, Tee KK, Truong HM, van de Vijver DA, Vidal N, Yang C, Yang R, Yebra G, Ioannidis JP, Vandamme AM, Shafer RW. Geographic and temporal trends in the molecular epidemiology and genetic mechanisms of transmitted HIV-1 drug resistance: an individual-patient- and sequence-level meta-analysis. *PLoS Med*. 2015 Apr 7; 12(4):e1001810. doi: 10.1371/journal.pmed.1001810. eCollection 2015 Apr. Erratum in: *PLoS Med*. 2015 Jun; 12(6):e1001845. PMID: 25849352; PMC4388826.
174. Massanella M, Gianella S, Schrier R, Dan JM, Pérez-Santiago J, Oliveira MF, Richman DD, Little SJ, Benson CA, Daar ES, Dube MP, Haubrich RH, Smith DM, Morris SR. Methamphetamine Use in HIV-infected Individuals Affects T-cell Function and Viral Outcome during Suppressive Antiretroviral Therapy. *Sci Rep*. 2015 Aug 24; 5:13179. doi: 10.1038/srep13179. PMID: 26299251; PMC4547398.

175. Smith DM. What Can We Learn From Measles? No New HIV Infections. *Top Antivir Med.* 2015 Aug-Sep;23(3):108-10. PMID: 26518393. (PMCID not applicable)
176. Smith MD, Wertheim JO, Weaver S, Murrell B, Scheffler K, Kosakovsky Pond SL. Less is more: an adaptive branch-site random effects model for efficient detection of episodic diversifying selection. *Mol Biol Evol.* 2015 May; 32(5):1342-53. doi: 10.1093/molbev/msv022. PMID: 25697341; PMC4408413.
177. Heaton RK, Franklin DR Jr, Deutsch R, Letendre S, Ellis RJ, Casaletto K, Marquine MJ, Woods SP, Vaida F, Atkinson JH, Marcotte TD, McCutchan JA, Collier AC, Marra CM, Clifford DB, Gelman BB, Sacktor N, Morgello S, Simpson DM, Abramson I, Gamst AC, Fennema-Notestine C, Smith DM, Grant I; CHARTER Group.. Neurocognitive change in the era of HIV combination antiretroviral therapy: the longitudinal CHARTER study. *Clin Infect Dis.* 2015 Feb 1; 60(3):473-80. doi: 10.1093/cid/ciu862. PMID: 25362201; PMC4303775.
178. Dillon SM, Lee EJ, Kotter CV, Austin GL, Gianella S, Siewe B, Smith DM, Landay AL, McManus MC, Robertson CE, Frank DN, McCarter MD, Wilson CC. Gut dendritic cell activation links an altered colonic microbiome to mucosal and systemic T-cell activation in untreated HIV-1 infection. *Mucosal Immunol.* 2016 Jan; 9(1):24-37. doi: 10.1038/mi.2015.33. PMID: 25921339; PMC4626441.
179. Panichsillapakit T, Smith DM, Wertheim JO, Richman DD, Little SJ, Mehta SR. Prevalence of Transmitted HIV Drug Resistance Among Recently Infected Persons in San Diego, CA 1996-2013. *J Acquir Immune Defic Syndr.* 2016 Feb 1; 71(2):228-36. doi: 10.1097/QAI.0000000000000831. PMID: 26413846; PMC4712087.
180. Day TR, Smith DM, Heaton RK, Franklin D, Tilghman MW, Letendre S, Jin H, Wu Z, Shi C, Yu X, Pérez-Santiago J. Subtype associations with HIV-associated neurocognitive disorder in China. *J Neurovirol.* 2016 Apr; 22(2):246-50. doi: 10.1007/s13365-015-0377-4. PMID: 26306690; PMC4769127.
181. Choi JY, Chaillon A, Oh JO, Ahn JY, Ann HW, Jung IY, Ahn MY, Jeon YD, Ku NS, Smith DM, Kim JM. HIV migration between blood plasma and cellular subsets before and after HIV therapy. *J Med Virol.* 2016 Apr; 88(4):606-13. doi: 10.1002/jmv.24375. PMID: 26348372; PMC4731240.
182. Hoenigl M, Chaillon A, Moore DJ, Morris SR, Smith DM, Little SJ. Clear Links Between Starting Methamphetamine and Increasing Sexual Risk Behavior: A Cohort Study Among Men Who Have Sex With Men. *J Acquir Immune Defic Syndr.* 2016 Apr 15; 71(5):551-7. doi: 10.1097/QAI.0000000000000888. PMID: 26536321; PMC4788567.
183. Vanpouille C, Introini A, Morris SR, Margolis L, Daar ES, Dube MP, Little SJ, Smith DM, Lisco A, Gianella S. Distinct cytokine/chemokine network in semen and blood characterize different stages of HIV infection. *AIDS.* 2016 Jan; 30(2):193-201. doi: 10.1097/QAD.0000000000000964. PMID: 26558730; PMC4862605.
184. Shi Y, Wang J, Wang Y, Wang A, Guo H, Wei F, Mehta SR, Espitia S, Smith DM, Liu L, Zhang Y, Chen D. A novel mutant 10Ala/Arg together with mutant 144Ser/Arg of hepatitis B virus X protein involved in hepatitis B virus-related hepatocarcinogenesis in HepG2 cell lines. *Cancer Lett.* 2016 Feb 28; 371(2):285-91. doi: 10.1016/j.canlet.2015.12.008. PMID: 26706415; PMC4934374.
185. Var SR, Day TR, Vitomirov A, Smith DM, Soontornniyomkij V, Moore DJ, Achim CL, Mehta SR, Pérez-Santiago J. Mitochondrial injury and cognitive function in HIV infection and methamphetamine use. *AIDS.* 2016 Mar 27; 30(6):839-48. doi: 10.1097/QAD.0000000000001027. PMID: 26807965; PMC4785088.
186. Glinka ER, Smith DM, Johns ST. Timing Matters - Influenza Vaccination to HIV-Infected Patients. *HIV Med.* 2016 Sep; 17(8):601-4. doi: 10.1111/hiv.12360. Epub 2016 Jan 26. PMID: 26810556; PMC4960000.

187. Panichsillapakit T, Patel D, Santangelo J, Richman DD, Little SJ, Smith DM. Colorectal Disorders in Acute Human Immunodeficiency Virus Infection: A Case Series. *Open Forum Infect Dis*. 2016 Jan 29; 3(1):ofw014. doi: 10.1093/ofid/ofw014. PMID: 26925432; PMC4766383.
188. Hoenigl M, Green N, Camacho M, Gianella S, Mehta SR, Smith DM, Little SJ. Signs or Symptoms of Acute HIV Infection in a Cohort Undergoing Community-Based Screening. *Emerg Infect Dis*. 2016 Mar; 22(3):532-4. doi: 10.3201/eid2203.151607. PMID: 26890854; PMC4766914.
189. Turner SS, Gianella S, Yip MJ, van Seggelen WO, Gillies RD, Foster AL, Barbaty ZR, Smith DM, Fierer DS. Shedding of Hepatitis C Virus in Semen of Human Immunodeficiency Virus-Infected Men. *Open Forum Infect Dis*. 2016 Mar 11; 3(2):ofw057. doi: 10.1093/ofid/ofw057. PMID: 27186582; PMC4866572.
190. Chin BS, Chaillon A, Mehta SR, Wertheim JO, Kim G, Shin HS, Smith DM. Molecular epidemiology identifies HIV transmission networks associated with younger age and heterosexual exposure among Korean individuals. *J Med Virol*. 2016 Oct; 88(10):1832-5. doi: 10.1002/jmv.24523. PMID: 26990771; PMC4969179
191. Dan JM, Massanella M, Smith DM, Spina CA, Schrier R, Daar ES, Dube MP, Morris SR, Gianella S. Brief Report: Effect of CMV and HIV Transcription on CD57 and PD-1 T-Cell Expression During Suppressive ART. *J Acquir Immune Defic Syndr*. 2016 Jun 1; 72(2):133-7. doi: 10.1097/QAI.0000000000000936. PMID: 26818740; PMC4868660.
192. Chaillon A, Gianella S, Little SJ, Caballero G, Barin F, Pond SK, Richman DD, Smith DM, Mehta SR. Characterizing the multiplicity of HIV founder variants during sexual transmission among MSM. *Virus Evolution*. 2016; 2(1):vew012. (PMCID in process; NIHMSID 797497)
193. Chaillon A, Hoenigl M, Mehta SR, Weibel N, Little SJ, Smith DM. A practical online tool to estimate antiretroviral coverage for HIV infected and susceptible populations needed to reduce local HIV epidemics. *Sci Rep*. 2016 Jun 24; 6:28707. doi: 10.1038/srep28707. PMID: 27337983; PMC4919622.
194. Yek C, Gianella S, Plana M, Castro P, Scheffler K, García F, Massanella M, Smith DM. Standard vaccines increase HIV-1 transcription during antiretroviral therapy. *AIDS*. 2016 Sep 24; 30(15):2289-98. doi: 10.1097/QAD.0000000000001201. PMID: 27427877; PMCID: PMC5559226.
195. de Almeida SM, Rotta I, Jiang Y, Li X, Raboni SM, Ribeiro CE, Smith D, Potter M, Vaida F, Letendre S, Ellis RJ; HNRC Group.. Biomarkers of chemotaxis and inflammation in cerebrospinal fluid and serum in individuals with HIV-1 subtype C versus B. *J Neurovirol*. 2016 Dec; 22(6):715-724. PMID: 27400932; PMC5130607.
196. Smith ML, Murrell B, Eren K, Ignacio C, Landais E, Weaver S, Phung P, Ludka C, Hepler L, Caballero G, Pollner T, Guo Y, Richman DD, The IAVI Protocol C Investigators & The IAVI African HIV Research Network, Poignard P, Paxinos EE, Kosakovsky Pond SL, Smith DM. Rapid Sequencing of Complete env Genes from Primary HIV-1 Samples. *Virus Evolution*. 2016; 2(2):vew018. doi: 10.1093/ve/vew018 (PMCID in process; NIHMSID 911165)
197. Gianella S, Kosakovsky Pond SL, Oliveira MF, Scheffler K, Strain MC, De la Torre A, Letendre S, Smith DM, Ellis RJ. Compartmentalized HIV rebound in the central nervous system after interruption of antiretroviral therapy. *Virus Evol*. 2016 Aug 3; 2(2):vew020. eCollection 2016 Jul. PMID: 27774305; PMC5072458.
198. Hoenigl M, Chaillon A, Mehta SR, Smith DM, Graff-Zivin J, Little SJ. Screening for acute HIV infection in community-based settings: Cost-effectiveness and impact on transmissions. *J Infect*. 2016 Nov; 73(5):476-484. doi: 10.1016/j.jinf.2016.07.019. PMID: 27521468; PMC5143169.

199. Geiger R, Smith DM, Little SJ, Mehta SR. Validation of the GeneXpert® CT/NG Assay for use with Male Pharyngeal and Rectal Swabs. *Austin J HIV AIDS Res.* 2016; 3(1). pii: 1021. PMID: 27536736; PMC4985020.
200. Bharti AR, McCutchan A, Deutsch R, Smith DM, Ellis RJ, Cherner M, Woods SP, Heaton RK, Grant I, Letendre SL. Latent Toxoplasma Infection and Higher Toxoplasma gondii Immunoglobulin G Levels Are Associated With Worse Neurocognitive Functioning in HIV-Infected Adults. *Clin Infect Dis.* 2016 Dec 15; 63(12):1655-1660. Epub 2016 Oct 28. PMID: 27794019; PMC5146725.
201. Smith DM, Nakazawa M, Freeman ML, Anderson CM, Oliveira MF, Little SJ, Gianella S. Asymptomatic CMV Replication During Early Human Immunodeficiency Virus (HIV) Infection Is Associated With Lower CD4/CD8 Ratio During HIV Treatment. *Clin Infect Dis.* 2016 Dec 1; 63(11):1517-1524. Epub 2016 Sep 6. PMID: 27601222; PMC5106612.
202. Hoenigl M, Pérez-Santiago J, Nakazawa M, de Oliveira MF, Zhang Y, Finkelman MA, Letendre S, Smith D, Gianella S. (1→3)-β-d-Glucan: A Biomarker for Microbial Translocation in Individuals with Acute or Early HIV Infection? *Front Immunol.* 2016 Oct 3; 7:404. PMID: 27752257; PMC5046804.
203. de Almeida SM, Rotta I, Ribeiro CE, Smith D, Wang R, Judicello J, Potter M, Vaida F, Letendre S, Ellis RJ, HNRC Group. Blood-CSF barrier and compartmentalization of CNS cellular immune response in HIV infection. *J Neuroimmunol.* 2016 Dec 15; 301:41-48. doi: 10.1016/j.jneuroim.2016.10.009. PMID: 27836178; PMC5148696.
204. Karris MY, Umlauf A, Vaida F, Richman D, Little S, Smith D. A randomized controlled clinical trial on the impact of CCR5 blockade with maraviroc in early infection on T-cell dynamics. *Medicine (Baltimore).* 2016 Nov; 95(44):e5315. PMID: 27858912; PMC5591160.
205. Günthard HF, Saag MS, Benson CA, del Rio C, Eron JJ, Gallant JE, Hoy JF, Mugavero MJ, Sax PE, Thompson MA, Gandhi RT, Landovitz RJ, Smith DM, Jacobsen DM, Volberding PA. Antiretroviral Drugs for Treatment and Prevention of HIV Infection in Adults: 2016 Recommendations of the International Antiviral Society-USA Panel. *JAMA.* 2016 Jul 12; 316(2):191-210. doi: 10.1001/jama.2016.8900. PMID: 27404187; PMC5012643.
206. Wagner GA, Chaillon A, Liu S, Franklin DR Jr, Caballero G, Kosakovsky Pond SL, Vaida F, Heaton RK, Letendre SL, Grant I, Richman DD, Smith DM. HIV-associated neurocognitive disorder is associated with HIV-1 dual infection. *AIDS.* 2016 Nov 13; 30(17):2591-2597. PMID: 27536983; PMC5083206.
207. Mehta SR, Murrell B, Anderson CM, Kosakovsky Pond SL, Wertheim JO, Young JA, Freitas L, Richman DD, Mathews WC, Scheffler K, Little SJ, Smith DM. Using HIV Sequence and Epidemiologic Data to Assess the Effect of Self-referral Testing for Acute HIV Infection on Incident Diagnoses in San Diego, California. *Clin Infect Dis.* 2016 Jul 1; 63(1):101-107. doi: 10.1093/cid/ciw161. PMID: 27174704; PMC4901863.
208. Ann HW, Jun S, Shin NY, Han S, Ahn JY, Ahn MY, Jeon YD, Jung IY, Kim MH, Jeong WY, Ku NS, Kim JM, Smith DM, Choi JY. Characteristics of Resting-State Functional Connectivity in HIV-Associated Neurocognitive Disorder. *PLoS One.* 2016 Apr 22; 11(4):e0153493. doi: 10.1371/journal.pone.0153493. eCollection 2016. PubMed PMID: 27104345; PubMed Central PMCID: PMC4841538.
209. Gianella S, Anderson CM, Var SR, Oliveira MF, Lada SM, Vargas MV, Massanella M, Little SJ, Richman DD, Strain MC, Pérez-Santiago J, Smith DM. Replication of Human Herpesviruses Is Associated with Higher HIV DNA Levels during Antiretroviral Therapy Started at Early Phases of HIV Infection. *J Virol.* 2016 Mar 28; 90(8):3944-52. doi: 10.1128/JVI.02638-15. PMID: 26842469; PMC4810527.
210. Pérez-Santiago J, Schrier RD, de Oliveira MF, Gianella S, Var SR, Day TR, Ramirez-Gaona M, Suben JD, Murrell B, Massanella M, Cherner M, Smith DM, Ellis RJ, Letendre SL, Mehta SR. Cell-free

mitochondrial DNA in CSF is associated with early viral rebound, inflammation, and severity of neurocognitive deficits in HIV infection. *J Neurovirol.* 2016 Apr; 22(2):191-200. doi: 10.1007/s13365-015-0384-5. Epub 2015 Oct 1. PMID: 26428514; PMC4862614.

211. Zhao J, Chen L, Chaillon A, Zheng C, Cai W, Yang Z, Li G, Gan Y, Wang X, Hu Y, Zhong P, Zhang C, Smith DM. The dynamics of the HIV epidemic among men who have sex with men (MSM) from 2005 to 2012 in Shenzhen, China. *Sci Rep.* 2016 Jun 29; 6:28703. doi: 10.1038/srep28703. PMID: 27352965; PMC4926087.
212. Chaillon A, Martin NK, Martin TC, Wyles DL, Smith DM, Mehta SR, Ballard C, Colwell B, Torriani F, Hill L, Mathews C, Hicks C, Cachay ER. Elevated HCV reinfection incidence after successful treatment among HIV-infected men who have sex with men in San Diego. *Hepatology*, 64: 367A-367A, 2016.
213. Landais E, Murrell B, Briney B, de Val N, Murrell S, Laird M, Ramos A, Wickramasinghe L, Wrin T, Paul Algate P, Chan-Hui P-Y, Smith D, Wilson I, Ward A, Burton D, Kosakovsky-Pond S, Poignard P. Common Env Escape Drives the Maturation of V2-apex Targeting bnAbs in HIV-1 Infected Individuals. *AIDS Res Human Retroviruses*, 32:120-120, 2016.
214. Carter C, Akrami K, Hall D, Smith D, Aronoff-Spencer E. Lyophilized visually readable loop-mediated isothermal reverse transcriptase nucleic acid amplification test for detection Ebola Zaire RNA. *J Virol Methods.* 2017 Jun;244:32-38. PMID: 28242293, PMC5568651
215. Saravanan S, Kausalya B, Gomathi S, Sivamalar S, Pachamuthu B, Selvamuthu P, Pradeep A, Sunil S, Mothi SN, Smith DM, Kantor R. Etravirine and Rilpivirine Drug Resistance Among HIV-1 Subtype C Infected Children Failing Non-Nucleoside Reverse Transcriptase Inhibitor-Based Regimens in South India. *AIDS Res Hum Retroviruses.* 2017 Jun; 33(6):567-574. doi: 10.1089/AID.2016.0133. PubMed PMID: 27869478. (PMCID in process)
216. Chen X, Ye M, Duo L, Pang W, Smith D, Zhang C, Zheng YT. First description of two new HIV-1 recombinant forms CRF82_cpx and CRF83_cpx among drug users in Northern Myanmar. *Virulence.* 2017 Jul 4; 8(5):497-503. doi: 10.1080/21505594.2016.1226722. PMID: 27574950; PMC5538334.
217. Hu Y, Wan Z, Zhou YH, Smith D, Zheng YT, Zhang C. Identification of Two New HIV-1 Circulating Recombinant Forms (CRF87_cpx and CRF88_BC) from Reported Unique Recombinant Forms in Asia. *AIDS Res Hum Retroviruses.* 2017 Apr; 33(4):353-358. doi: 10.1089/AID.2016.0252. PMID: 27762598; PMCID: PMC5372766.
218. Chen X, Ye M, Pang W, Smith DM, Zhang C, Zheng YT. First Appearance of HIV-1 CRF07_BC and CRF08_BC Outside China. *AIDS Res Hum Retroviruses.* 2017 Jan; 33(1):74-76. doi: 10.1089/AID.2016.0169. PMID: 27392826. (PMCID not applicable)
219. Morris SR, Zhao M, Smith DM, Vargas MV, Little SJ, Gianella S. Longitudinal Viral Dynamics in Semen During Early HIV Infection. *Clin Infect Dis.* 2017 Feb 15; 64(4):428-434. doi: 10.1093/cid/ciw784. PMID: 28174909. (PMCID in process)
220. Oliveira MF, Chaillon A, Nakazawa M, Vargas M, Letendre SL, Strain MC, Ellis RJ, Morris S, Little SJ, Smith DM, Gianella S. Early Antiretroviral Therapy Is Associated with Lower HIV DNA Molecular Diversity and Lower Inflammation in Cerebrospinal Fluid but Does Not Prevent the Establishment of Compartmentalized HIV DNA Populations. *PLoS Pathog.* 2017 Jan 3; 13(1):e1006112. doi: 10.1371/journal.ppat.1006112. eCollection 2017 Jan. PMID: 28046096; PMC5266327.
221. Glinka ER, Smith DM, Johns ST. Now is the Time to Study the Timing of Influenza Vaccine. *HIV Med, HIV Med.* 2018 Mar; 19(3):e53. doi: 10.1111/hiv.12486. PMID: 28116796. (PMCID not applicable)

222. Vesa J, Chaillon A, Wagner GA, Anderson CM, Richman DD, Smith DM, Little SJ. Increased HIV-1 superinfection risk in carriers of specific human leukocyte antigen alleles. *AIDS*. 2017 May 15; 31(8):1149-1158. doi: 10.1097/QAD.0000000000001445. PMID: 28244954; PMC5559224.
223. Chaillon A, Essat A, Frange P, Smith DM, Delaugerre C, Barin F, Ghosn J, Pialoux G, Robineau O, Rouzioux C, Goujard C, Meyer L, Chaix ML, on behalf the APCS. Spatiotemporal dynamics of HIV-1 transmission in France (1999-2014) and impact of targeted prevention strategies. *Retrovirology*. 2017; 14(1):15. doi: 10.1186/s12977-017-0339-4. PubMed PMID: 28222757; PMCID: PMC5322782.
224. Green N, Hoenigl M, Chaillon A, Anderson CM, Kosakovsky Pond SL, Smith DM, Little SJ. Partner services in adults with acute and early HIV infection. *AIDS*. 2017; 31(2):287-93. doi: 10.1097/QAD.0000000000001308. PMID: 27831950; PMCID: PMC5177524.
225. Gianella S, Taylor J, Brown TR, Kaytes A, Achim CL, Moore DJ, Little SJ, Ellis RJ, Smith DM. Can research at the end of life be a useful tool to advance HIV cure? *AIDS*. 2017; 31(1):1-4. doi: 10.1097/QAD.0000000000001300. PMID: 27755112; PMC5137789.
226. Chaillon A, Smith DM, Vanpouille C, Lisco A, Jordan P, Caballero G, Vargas M, Gianella S, Mehta SR. HIV Trafficking Between Blood and Semen During Early Untreated HIV Infection. *J Acquir Immune Defic Syndr*. 2017; 74(1):95-102. doi: 10.1097/QAI.0000000000001156. PMID: 27548440; PMC5140710.
227. Wagner GA, Landais E, Caballero G, Phung P, Kosakovsky Pond SL, Poignard P, Richman DD, Little SJ, Smith DM. Intrasubtype B HIV-1 Superinfection Correlates with Delayed Neutralizing Antibody Response. *J Virol*. 2017 Aug 10; 91(17). pii: e00475-17. doi: 10.1128/JVI.00475-17. PMID: 28615205; PMC5553187.
228. Choi JY, Pond SLK, Anderson CM, Richman DD, Smith DM. Molecular Features of the V1-V4 Coding Region of Sexually Transmitted Human Immunodeficiency Virus Type 1. *J Infect Dis*. 2017; 215(10):1506-13. doi: 10.1093/infdis/jix184. PMID: 28419276. PMCID in process.
229. Ahn MY, Wertheim JO, Kim WJ, Kim SW, Lee JS, Ann HW, Jeon Y, Ahn JY, Song JE, Oh DH, Kim YC, Kim EJ, Jung IY, Kim MH, Jeong W, Jeong SJ, Ku NS, Kim JM, Smith DM, Choi JY. Short Communication: HIV-1 Transmission Networks Across South Korea. *AIDS Res Hum Retroviruses*. 2017 Aug; 33(8):827-831. doi: 10.1089/aid.2016.0212. PMID: 28346838; PMC5564048.
230. Wertheim JO, Kosakovsky Pond SL, Forgione LA, Mehta SR, Murrell B, Shah S, Smith DM, Scheffler K, Torian LV. Social and Genetic Networks of HIV-1 Transmission in New York City. *PLoS Pathog*. 2017; 13(1):e1006000. doi: 10.1371/journal.ppat.1006000. PubMed PMID: 28068413; PMC5221827
231. Landais E, Murrell B, Briney B, Murrell S, Rantalainen K, Berndsen ZT, Ramos A, Wickramasinghe L, Smith ML, Eren K, de Val N, Wu M, Cappelletti A, Umotoy J, Lie Y, Wrin T, Algate P, Chan-Hui PY, Karita E; IAVI Protocol C Investigators; IAVI African HIV Research Network, Ward AB, Wilson IA, Burton DR, Smith D, Pond SLK, Poignard P. HIV Envelope Glycoform Heterogeneity and Localized Diversity Govern the Initiation and Maturation of a V2 Apex Broadly Neutralizing Antibody Lineage. *Immunity*. 2017 Nov 21;47(5):990-1003.e9. doi: 10.1016/j.immuni.2017.11.002. PMID: 29166592, PMC5736302
232. de Almeida SM, Rotta I, Ribeiro CE, Oliveira MF, Chaillon A, de Pereira AP, Cunha AP, Zonta M, Bents JF, Raboni SM, Smith D, Letendre S, Ellis RJ. Dynamic of CSF and serum biomarkers in HIV-1 subtype C encephalitis with CNS genetic compartmentalization-case study. *J Neurovirol*. 2017 Jun; 23(3):460-473. doi: 10.1007/s13365-017-0518-z. PMID: 28247269; PMC5441962.
233. Pérez-Santiago J, Ramirez-Gaona M, Holm-Kennedy R, Smith DM, Fierer J. Bacteremia and Skin Infections in Four Patients Caused by Helicobacter-Like Organisms. *Open Forum Infectious Diseases*, Volume 4, Issue 3, 1 July 2017, ofx074, <https://doi.org/10.1093/ofid/ofx074>. (PMCID in process: NIHMSID 911203)

234. Chaillon A, Nakazawa M, Wertheim JO, Little SJ, Smith DM, Mehta SR, Gianella S. No Substantial Evidence for Sexual Transmission of Minority HIV Drug Resistance Mutations in Men Who Have Sex with Men. *J Virol*. 2017 Aug 9. pii: JVI.00769-17. doi: 10.1128/JVI.00769-17. [Epub ahead of print] PubMed PMID: 28794047. (PMCID in process: NIHMSID 911206)
235. Oom AL, Smith D, Akrami K. Identification of putative unique immunogenic ZIKV and DENV1-4 peptides for diagnostic cellular based tests. *Sci Rep*. 2017 Jul 24; 7(1):6218. doi: 10.1038/s41598-017-05980-z. PMID: 28740150; PMC5524841.
236. Schooley RT, Biswas B, Gill JJ, Hernandez-Morales A, Lancaster J, Lessor L, Barr JJ, Reed SL, Rohwer F, Benler S, Segall AM, Taplitz R, Smith DM, Kerr K, Kumaraswamy M, Nizet V, Lin L, McCauley MD, Strathdee SA, Benson CA, Pope RK, Leroux BM, Picel AC, Mateczun AJ, Cilwa KE, Regeimbal JM, Estrella LA, Wolfe DM, Henry MS, Quinones J, Salka S, Bishop-Lilly KA, Young R, Hamilton T. Development and Use of Personalized Bacteriophage-Based Therapeutic Cocktails To Treat a Patient with a Disseminated Resistant *Acinetobacter baumannii* Infection. *Antimicrob Agents Chemother*. 2017 Sep 22;61(10). pii: e00954-17. doi: 10.1128/AAC.00954-17. PMID: 28807909 PMCID: PMC5610518
237. Chaillon A, Sun X, Cachay ER, Looney D, Wyles DL, Garfein RL, Anderson CM, Martin TC, Jain S, Mehta SR, Smith DM, Little SJ, Martin NK. Increasing Primary Incidence of Hepatitis C Among HIV-Infected Men Who Have Sex with Men in San Diego; a Pooled Analysis of Two Large Clinics from 2000-2015. *Hepatology*, 66:72A-73A, 2017.
238. Chaillon A, Gianella S, Lada SM, Perez-Santiago J, Jordan P, Ignacio C, Karris M, Richman DD, Mehta SR, Little SJ, Wertheim JO, Smith DM. Size, Composition and Evolution of HIV DNA Populations during Early Antiretroviral Therapy and Intensification with Maraviroc. *J Virol*. 2018 Jan 17;92(3). pii: e01589-17. doi: 10.1128/JVI.01589-17.
239. Caputi TL, Smith D, Ayers JW. Suicide Risk Behaviors Among Sexual Minority Adolescents in the United States, 2015. *JAMA*. 2017 Dec 19;318(23):2349-2351. doi: 10.1001/jama.2017.16908. PMID: 29260214
240. Salas-Espinoza KJ, Menchaca-Diaz R, Patterson TL, Urada LA, Smith D, Strathdee SA, Pitpitan EV. HIV Prevalence and Risk Behaviors in Male to Female (MTF) Transgender Persons in Tijuana, Mexico. *AIDS Behav*. 2017 Dec; 21(12):3271-3278. doi: 10.1007/s10461-017-1931-2. PMID: 29032411 PMCID: PMC5736304
241. Dinesha TR, Boobalan J, Sivamalar S, Subashini D, Solomon SS, Murugavel KG, Balakrishnan P, Smith DM, Saravanan S. Occult HBV infection in HIV-infected adults and evaluation of pooled NAT for HBV. *J Viral Hepat*. 2018 Jun; 25(6):718-723. doi: 10.1111/jvh.12858. PMID: 29316078, PMC5980682
242. Dinesha TR, Boobalan J, Sivamalar S, Solomon SS, Poongulali S, Pradeep A, Murugavel KG, Balakrishnan P, Smith DM, Saravanan S. HIV, Hepatitis B Virus, and Hepatitis C Virus Prevalence Among High-Risk Populations in South India. *AIDS Res Hum Retroviruses*. 2018 Apr; 34(4):327-328. doi: 10.1089/AID.2017.0253. PMID: 29161880, PMC5899286
243. Xu M, Moresco JJ, Chang M, Mukim A, Smith D, Diedrich JK, Yates JR 3rd, Jones KA. SHMT2 and the BRCC36/BRISC deubiquitinase regulate HIV-1 Tat K63-ubiquitylation and destruction by autophagy. *PLoS Pathog*. 2018 May 23;14(5):e1007071. doi: 10.1371/journal.ppat.1007071. PMID: 29791506
244. Gianella S, Sonya Haw J, Blumenthal J, Sullivan B, Smith D. The Importance of Human Immunodeficiency Virus Research for Transgender and Gender-Nonbinary Individuals. *Clin Infect Dis*. 2018 Apr 17;66(9):1460-1466. doi: 10.1093/cid/cix990. PMID: 29126186, PMC5905620
245. Mehta SR, Chaillon A, Gaines TL, Gonzalez-Zuniga PE, Stockman JK, Almanza-Reyes H, Chavez JR, Vera A, Wagner KD, Patterson TL, Scott B, Smith DM, Strathdee SA. Impact of Public Safety Policies on

Human Immunodeficiency Virus Transmission Dynamics in Tijuana, Mexico. Clin Infect Dis. 2018 Feb 10;66(5):758-764. doi: 10.1093/cid/cix884. PMID: 29045592, PMC5848227

246. Sadanand S, Das J, Chung AW, Schoen MK, Lane S, Suscovich TJ, Streeck H, Smith DM, Little SJ, Lauffenburger DA, Richman DD, Alter G. Temporal variation in HIV-specific IgG subclass antibodies during acute infection differentiates spontaneous controllers from chronic progressors. AIDS. 2018 Feb 20;32(4):443-450. doi: 10.1097/QAD.0000000000001716. PMID: 29239894, PMC5983383
247. Ávila-Ríos S, García-Morales C, Valenzuela-Lara M, Chaillon A, Tapia-Trejo D, Pérez-García M, López-Sánchez DM, Maza-Sánchez L, Del Arenal-Sánchez SJ, Paz-Juárez HE, Quiroz-Morales VS, Mehta SR, Smith DM, León-Juárez EA, Magis-Rodríguez C, Reyes-Terán G; HIVDR MexNet Group . HIV-1 drug resistance before initiation or re-initiation of first-line ART in eight regions of Mexico: a sub-nationally representative survey. J Antimicrob Chemother. 2018 Dec 28. doi: 10.1093/jac/dky512, PMID: 30597094.