
BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Cohen, Myron S.	POSITION TITLE Professor of Medicine, Microbiology & Immunology, Public Health		
eRA COMMONS USER NAME (credential, e.g., agency login)			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	MM/YY	FIELD OF STUDY
University of Illinois, Urbana, IL	BS	1971	Psychology
Rush Medical College, Chicago, IL	MD	1974	Medicine
University of Michigan, Ann Arbor, MI	Internship	1975	Internal Medicine
University of Michigan, Ann Arbor, MI	Residency	1977	Internal Medicine

A. Personal Statement

For the past 30 years, I have focused on the transmission of STDS including HIV, and strategies for STD and HIV prevention. I lead a research group that studied HIV in genital secretions, and the effects of antiretroviral therapy on HIV replication in these compartments. Based on these results I helped develop and lead a multinational clinical trial, HPTN 052, that demonstrated that antiretroviral treatment of HIV greatly reduces heterosexual transmission.

Positions and Honors.

Positions and Employment

1980-1985 Assistant Professor of Medicine, Microbiology and Immunology, UNC-Chapel Hill
1985-1991 Associate Professor of Medicine, Microbiology and Immunology, UNC-Chapel Hill
1990- Chief, Division of Infectious Diseases, UNC-Chapel Hill
1991- Professor of Medicine, Microbiology and Immunology, UNC-Chapel Hill
1999- Director, UNC Center for Infectious Diseases
2001- J. Herbert Bate Distinguished Professor
2004- Professor of Medicine, Microbiology, Immunology and Public Health, UNC-Chapel Hill
2007- Director, Institute for Global Health and Infectious Diseases
2007- Associate Vice Chancellor for Medical Affairs—Global Health
2011- Yeargan-Bate Eminent Professor

Other Experience and Professional Memberships

1980 Fellow, Infectious Disease Society
1989 Member, American Society for Clinical Investigation
1997-2004 Director, NIH STD Clinical Trials Unit
1997- Associate Director, UNC CFAR
1997- Co-Director, UNC Fogarty Center
2000, 2004 Member, Institute of Medicine Committees
2004- Editor, Sexually Transmitted Diseases
2005 Member, Association of American Physicians
2005-12 Scientific Leadership Group, NIH CHAVI
2005 Executive Committee, NIH Prevention Trials Network
2011- PEPFAR Scientific Advisory Board
2011-14 NIH AIDS Research Advisory Council
2012-15 Office of AIDS Research Advisory Board
2012-21 Co-PI, HIV Prevention Trials Network
2012- Member, Institute of Medicine, National Academy of Science

Honors

Jefferson-Pilot Award (1982); R.J. Reynolds Award (1983); W.H. Reynolds Award (1987); Keenan Award (2004); Fekety Lectureship Award, University of Michigan (1998); Distinguished Alumnus Award, Rush Medical College (1999); Keynote Speaker UN World AIDS Day (2000); America's Top Doctors (Castle) (2002-); NIH MERIT Award (2004); The Thomas Parran Award for Lifetime Achievement in STD Research (2005); UNC System, O. Max Gardner Award (2008); Plenary Speaker, IAS Mexico City (2008), Science Magazine Breakthrough of the Year (2011); Clinical Research Forum Herb Pardes Award; NIH Dyer Lecture (2012); Arthur Ashe Memorial Lecture, Cornell University (2012); Commencement Address, University of North Carolina at Chapel Hill (2012); Elected to the Institute of Medicine (2012); Smadel Lecture IDSA (2013)

C. Selected Peer-reviewed Publications

1. Royce, AR, Seña, A, Cates, W and **Cohen MS**. Sexual transmission of HIV. *N Engl J Med* 336(15): 1072-1078, 1997.
2. Pereira AS, Kashuba ADM, Fiscus SA, Hall JE, Tidwell RR, Troiani L, Dunn JA, Eron JJ, **Cohen MS**. Antiretroviral therapy and HIV-1 in semen: relationship between drug concentration and viral burden. *J Infect Dis* 180 (6):2039-43, 1999.
3. Vernazza PL, Troiani L, Flepp MJ, Cone RW, Schock J, Roth F, Boggian K, **Cohen MS**, Fiscus SA, Eron JJ, and the Swiss HIV Cohort Study. Potent antiretroviral treatment of HIV-infection results in suppression of the seminal shedding of HIV. *AIDS* 14(2):117-121, 2000.
4. Pilcher, CD Price, MA, Hoffman, IF, Galvin, SR, Martinson, FEA, Kazembe, PN, Eron, JJ, Miller, WC, Fiscus, SA, **Cohen, MS**. Frequent detection of acute primary HIV infection in men in Malawi. *AIDS* 18:517-520, 2004.
5. Vourvahis M, Tappouri HL, Patterson KB, Chen YC, Rezk N, Fiscus SA, Kearney BP, Rooney JM, Hui J, Cohen MS and Kashuba ADM. The pharmacokinetics and viral activity of tenofovir in the male genital tract. *J Acquir Immune Defic Syndr* 47(3):329-333, 2008.
6. Powers KA, Poole C, Pettifor AE, Cohen MS. Rethinking the heterosexual infectivity of HIV-1: a systematic review and meta-analysis. *Lancet Infect Dis* 8: 553-63.,2008.
7. Dumond JB, Reddy YS, Troiani L, Rodriguez JF, Bridges AS, Fiscus SA, Yuen GJ, Cohen MS, Kashuba AD. Differential extracellular and intracellular concentrations of zidovudine and lamivudine in semen and plasma of HIV-1-infected men. *J Acquir Immune Defic Syndr*. 48:156-62, 2008.
8. Keele BF, Giorgi EE, Salazar-Gonzalez JF, Decker JM, Pham KT, Salazar MG, Sun C, Grayson T, Wang S, Li H, Wei X, Jiang C, Kirchherr JL, Gao F, Anderson JA, Ping LH, Swanstrom R, Tomaras GD, Blattner WA, Goepfert PA, Kilby JM, Saag MS, Delwart EL, Busch MP, Cohen MS, Montefiori DC, Haynes BF, Gaschen B, Athreya GS, Lee HY, Wood N, Seoighe C, Perelson AS, Bhattacharya T, Korber BT, Hahn BH, Shaw GM. Identification and characterization of transmitted and early founder virus envelopes in primary HIV-1 infection. *Proc Natl Acad Sci U S A* 105:7552-7, 2008.
9. Salazar-Gonzalez JF, Salazar MG, Keele BF, Learn GH, Giorgi EE, Li H, Decker JM, Wang S, Baalwa J, Kraus MH, Parrish NF, Shaw KS, Guffey MB, Bar KJ, Davis KL, Ochsenbauer-Jambor C, Kappes JC, Saag MS, Cohen MS, Mulenga J, Derdeyn CA, Allen S, Hunter E, Markowitz M, Hraber P, Perelson AS, Bhattacharya T, Haynes BF, Korber BT, Hahn BH, Shaw GM. Genetic identity, biological phenotype, and evolutionary pathways of transmitted/founder viruses in acute and early HIV-1 infection. *J Exp Med*. 206:1273-89. 2009.
10. Anderson JA, Ping LH, Dibben O, Jabara CB, Arney L, Kincer L, Tang Y, Hobbs M, Hoffman I, Kazembe P, Jones CD, Borrow P, Fiscus S, **Cohen MS**, Swanstrom R; Center for HIV/AIDS Vaccine Immunology. HIV-1 Populations in Semen Arise through Multiple Mechanisms. *PLoS Pathog*. 19;6(8), 2010.
11. Cohen, MS, Shaw, GM, McMichael, AJ, Haynes BF. Acute HIV infection. *NEJM* 19: 1943-54. 2011.
12. **Cohen MS**, Chen YQ, McCauley M, Gamble T, Hosseinipour MC, Kumarasamy N, Hakim JG, Kumwenda J, Grinsztejn B, Pilotto JH, Godbole SV, Mehendale S, Chariyalertsak S, Santos BR, Mayer KH, Hoffman IF, Eshleman SH, Piwowar-Manning E, Wang L, Makhema J, Mills LA, de Bruyn G, Sanne I, Eron J, Gallant J, Havlir D, Swindells S, Ribaud H, Elharrar V, Burns D, Taha TE, Nielsen-Saines K, Celentano D, Essex M,

Fleming TR; the HPTN 052 Study Team. Prevention of HIV infection with early Antiretroviral therapy. New Eng J Med. 363: 493-505, 2011.

13. Powers KA, Ghani AC, Miller WC, Hoffman IF, Pettifor AE, Kamanga G, Martinson FE, Cohen MS. The role of acute and early HIV-1 infection and implication for prevention in Lilongwe, Malawi: A modeling study. Lancet: 378:256-268
14. Archin NM, Vaidya NK, Kuruc JD, Liberty AL, Wiegand A, Kearney MF, **Cohen MS**, Coffin JM, Bosch RJ, Gay CL, Eron JJ, Margolis DM, Perelson AS. Immediate antiviral therapy appears to restrict resting CD4+ cell HIV-1 infection without accelerating the decay of latent infection. Proc Natl Acad Sci U S A. 2012 Jun 12;109:9523-8.
15. Muessig KE, Smith MK, Powers KA, Lo YR, Burns DN, Grulich AE, Phillips AN, **Cohen MS**. Does ART prevent HIV transmission among MSM? AIDS. 2012 May 7. Epub ahead of print

D. Research Support

Ongoing Research Support

R37DK49381 (Cohen) 7/01/05-6/30/2015

NIH MERIT AWARD

This Award supports ongoing investigation related to the transmission of HIV.

Role: PI

9-P30-AI50410 (Swanstrom/Cohen) 05/01/96-04/30/15

UNC Center for AIDS Research Core A: Administration

The Administrative Core (Core A) provides the administrative structure and support, and overall leadership for the UNC CFAR. Dr. Cohen serves as Associate Director of the UNC Center for AIDS Research

Role:

1 U01 AI069518-01 (Cohen, M) 12/01/06-11/30/13

Johns Hopkins University

HIV Prevention Trials Unit-Malawi

This is a renewal of the UNC HPTN site in Malawi in partnership with Johns Hopkins University

None Assigned (Cohen, M) 07/01/06-05/31/13

Family Health International

HIV Prevention Trials Network (HPTN) Co-Principal Investigator

D43 TW01039 (Adimora/Cohen) 04/01/09-03/31/14

Fogarty International Training Grant

AIDS International Research and Training Program

This grant provides funds for training directed towards HIV/STD prevention for personnel from Cameroon, China and Malawi. Dr. Cohen serves as a Co-Investigator