

BIOGRAPHICAL SKETCH

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NAME Cohen, Myron S.	POSITION TITLE Professor of Medicine, Microbiology, Immunology		
eRA COMMONS USER NAME			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	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. Positions and Honors.**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

Other Experience and Professional Memberships

1978	American Board of Internal Medicine
1986-1989	American Federation for Clinical Research
1980-1988	American Society for Microbiology; Editorial Board, Infection and Immunity
2000-2004	V.A. Merit Review and Career Development
1987-1993	Chairman, NC Medical Society Committee for STDs and AIDS
1997-	Director, NIH STD Clinical Trials Unit
1997-	Associate Director, UNC CFAR
1997-	Co-Director, UNC Fogarty Center
1997, 2000, 2004	Chairman, STD/HIV Symposium, IDSA
2000	Keynote Speaker, UN Worlds Aids Day
2005-2006	Member, Institute of Medicine Gulf War Infectious Disease Committee

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); America's Top Doctors (Castle) (2002-2004); The Thomas Parran Award for Lifetime Achievement in STD Research (2005)

B. Selected peer-reviewed publications (in chronological order)

- Cohen MS**, Hoffman IF, Royce RA, Kazembe P, Dyer JR, Zimba D, Vernazza PL, Costello-Daly C, Maida M, Fiscus SA, Eron JJ. Reduction of concentration of HIV-1 in semen after treatment of urethritis: implications for prevention of sexual transmission of HIV-1. *Lancet* 349:1868-1873, 1997.
- Cates W, Chesney M, and **Cohen MS**. Primary HIV disease: A public health emergency. *Am. J. Public Health* 87(12):1928-1930, 1997.

3. Dyer J, Gilliam B, Eron JJ, **Cohen MS**, Fiscus S, Vernazza P. Shedding of HIV in semen during primary HIV infection. *AIDS* 11:543-545, 1997.
4. Vernazza PL, Gilliam BL, Dyer J, Fiscus SA, Eron JJ, Frank AC, and **Cohen MS**. Quantification of HIV in semen: correlation with antiviral treatment and immune status. *AIDS* 11:987-993, 1997.
5. Vernazza PL, Gilliam BL, Flepp M, Dyer JR, Franc AC, Fiscus SA, **Cohen MS**, Eron JJ. Effect of antiviral treatment on shedding of HIV-1 in semen. *AIDS* 11:1249-1254, 1997.
6. Dyer JR, Vernazza PL, Gilliam B, Zimba D, Hoffman, IF, Royce RR, Fiscus SA, Kazembe P, **Cohen MS** and Eron JJ. High levels of human immunodeficiency virus type 1 in blood and semen of seropositive men in Malawi. *J Infect Dis* 177:1742-1746, 1998.
7. **Cohen MS**. Sexually transmitted diseases enhance transmission of HIV: No longer a hypothesis. *Lancet* 351:5-7, 1998.
8. Eron JJ, Vernazza PL, Johnston DM, Seillier-Moiseiwitsch F, Alcorn TM, Fiscus SA, **Cohen MS**. Resistance of HIV-1 to antiretroviral agents in blood and seminal plasma: Implications for transmission. *AIDS* 12:7397, 1998.
9. Dyer JR, Eron JJ, Hoffman IF, Kazembe P, Vernazza PL, Nkata E, Costello-Daly C, Fiscus SA, **Cohen MS**. Association of CD4 depletion and seminal plasma HIV-1 RNA concentrations with genital ulcer disease in HIV-1 infected men in Malawi. *J Infect Dis* 177:224-7, 1998.
10. Ping LH, Nelson JAE, Hoffman IF, Schock J, Lamers SL, Goodman M, Vernazza P, Kazembe P, Maida M, Zimba D, Goodenow M, Eron JJ, Fiscus SA, **Cohen MS**, Swanstrom R. Characterization of V3 sequence heterogeneity in subtype C HIV-1 isolates from Malawi: underrepresentation of X4 variants. *J Virol* 73, 6271-6281, 1999.
11. Pereira AS, Kashuba ADM, Fiscus SA, Hall JE, Tidwell RR, Troiani L, Dunn JA, Eron JJ, **Cohen MS**. Nucleoside analogues achieve high concentrations in seminal plasma: relationship between drug concentration and virus burden. *J Infect Dis* 180:2039-43, 1999.
12. 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):117-21, 2000.
13. **Cohen MS**, Shugars DC, Fiscus SA. Limits on oral transmission of HIV-1. *Lancet* 356:272, 2000.
14. Ping LH, **Cohen MS**, Hoffman IF, Vernazza P, Seillier-Moiseiwitsch F, Chakraborty H, Kazembe P, Zimba D, Maida M, Fiscus SA, Eron JJ, Swanstrom R, Nelson JAE. Effects of genital tract inflammation on HIV-1 V3 populations in blood and semen, *J Virol* 74(19):8946-52, 2000.
15. Robbins WA, Witt KL, Haseman JK, Dunson DB, Troiani L, **Cohen MS**, Hamilton CD, Perreault SD, Bishop JB and the RTP Germ Cell Working Group. Effects of antiretroviral therapy on genetic and morphological endpoints in lymphocytes and sperm of people with HIV infection. *J Infect Dis* 184(2):127-35, 2001.
16. Chakraborty H, Sen PK, Helms RW, Vernazza PL, Fiscus SA, Eron JJ, Patterson BK, Coombs RW, Krieger JN, **Cohen MS**. Viral burden in genital secretions determines male-to-female sexual transmission of HIV-1: A probabilistic empiric model. *AIDS* 15:621-627, 2001.
17. Jordan HL, Pereira AS, **Cohen MS**, Kashuba AD. Domestic cat model for predicting human nucleoside analogue pharmacokinetics in blood and seminal plasma. *Antimicrob Agents Chemother* 45:2173-6, 2001.
18. Pereira AS, Kenney KB, **Cohen MS**, Eron JJ, Tidwell RR, Dunn JA. Determination of amprenavir concentrations in human seminal plasma using high performance liquid chromatography and tandem mass spectrometry. *J Chromatog*: 766:307-317, 2001.
19. Pereira AS, Kenney KB, **Cohen MS**, Hall JE, Eron JJ, Tidwell RR, Dunn JA. Simultaneous determination of lamivudine and zidovudine concentrations in human seminal plasma and using high-performance liquid chromatography and tandem mass spectrometry. *J Chromatog* 742:173-183, 2002.
20. Reddy YS, Gotzkowsky SK, Eron JJ, Kim JY, Fiske WD, Fiscus SA, Petch, L, **Cohen MS**, Kashuba, ADM. Pharmacokinetic and pharmacodynamic investigation of efavirenz in the semen and blood of human immunodeficiency virus type 1-infected men. *J Infectious Diseases* 186:1339-43, 2002.
21. Chakraborty H, Helms RW, Sen PK, **Cohen MS**. Estimating correlation by using general linear mixed models: correlation between the concentration of blood and semen HIV-1 RNA. *Stat Med* 22 1457-1454, 2003.
22. Feng, T, Ni, A Yang, G, Galvin, SR, Hoffman, I and **Cohen MS**. Distribution of the CCR5 gene 32-base pair deletion and CCR5 expression in Chinese minorities. *J Acquir Immune Defic Syndr* 32:121-4, 2003.

23. Parish WL, Laumann, EO, **Cohen MS**, Pan S, Zheng H, Hoffman I, Wang T, Ng KH. The emergent epidemic of STDs in China: a population-based study of behavioral and demographic correlates and implications for public health policy. JAMA 289: 1265-73, 2003.
24. 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.
25. Pilcher, CD, Tien, HC, Eron, JJ, Vernazza, PL, Leu, S, Stewart, PM, Goh, L, **Cohen, MS**. Brief but Efficient: Acute HIV Infection and the Sexual Transmission of HIV. J Infect Dis 10:1785-92, 2004.
26. Galvin SR, **Cohen MS**. Sexual transmission of HIV. Nature Microbiology Reviews 2 33-42, 2004.
27. Henderson GJ, Fiscus SA, Hoffman I, McGrath K, **Cohen MS**, Swanstrom R. HIV-1 Populations in blood and breast milk are similar. J Virology (in press).
28. Min SS, Corbett, AH, Rezk, N, Cu-Uvin, S, **Cohen, MS** and Kashuba, ADM. Protease inhibitors and non-nucleoside reverse transcriptase inhibitor concentrations in the genital tract of HIV-1 infected women. J.AIDS (in press).
29. Pilcher, CD, Fiscus, SA, Trang, Q N, Foust, E, Wolf, L, Williams, D, Ashby, W, O Doud, JO, McPherson, T, Staber, B, Hightow, L, Miller, WC, Eron, J, **Cohen, MS**, Leone, P. Detection of acute HIV infections in the general HIV testing population. N Engl J Med 2005 May 5;352(18): 1873-83.
30. **Cohen, MS** and Pilcher, C. Amplified Transmission of HIV-1. Journal of Infectious Diseases (in press).

C. Research Support.

Ongoing Research Support

R37DK49381 (Cohen)

07/01/00-6/30/05; 7/01/05-6/30/2015

NIH MERIT AWARD

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

Role: PI

U19AI131496 (Sparling)

09/01/04-08/31/09

NIH/NIAID

Project 1 of the UNC STI Clinical Research Center (Cohen, PI) is devoted to examine the simultaneous acquisition of HIV and STDs, with a focus on genital ulcer disease and HSV-2.

Role: Co-investigator

N01-AI-75329 (Cohen)

10/01/97-03/31/07

NIH/NIAID

UNC/UAB/UW STD-Clinical Trials Unit

The University of North Carolina at Chapel Hill is the prime offeror in a consortium with the University of Alabama at Birmingham, the University of Washington at Seattle, and Family Health International for a STD-Clinical Trials Unit. The Clinical Trials Unit is designed to develop and test novel diagnostic and therapeutic approaches.

Role: PI

STD-CTG Contract (Hook)

10/31/04-10/31/11

NIH

This contract is designed to replace the STD-Clinical Trials Unit.

Role: Multi-site investigator.

5 U01 AI48005 (Cohen)

7/1/01-12/31/06

Johns Hopkins University

HIV Prevention Trials Unit

NIH/NIAID

This is a subcontract with Johns Hopkins University for development of the Lilongwe Central Hospital Research Site, research protocol and subject evaluation and development, and research protocol implementation.

Principal Investigator/Program Director (Last, First, Middle):

Role: PI

No number (Cohen)

07/01/00-12/31/06

Family Health International

HIV Prevention Trials Network Core

NIH/NIAID

Support is provided for leadership of the HPTN Antiviral Therapy Working Group, and for development and management of HPTN052, a multicenter trial international designed to determine the ability of antiretroviral therapy to prevent transmission of HIV.

Role: PI

D43 TW01039 (Adimora/Cohen)

09/30/98-5/31/09

NIH/FIC

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.

Role: Co-principal investigator

2 T32 A107151 (Cohen)

06/01/98-05/31/08

NIH/NRSA

Infectious Disease Pathogenesis Research Training Grant

This postdoctoral research training program focuses on the epidemiology and molecular pathogenesis of infectious diseases.

Role: PI

9-P30-AI50410 (Swanstrom/Cohen)

08/01/01-05/31/11

NIH

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. Cohen serves as Associate Director of the UNC Center for AIDS Research

Role: Co-principal investigator

Duke CHAVI Consortium (Haynes)

10/01/05-07/31/12

Core B; Acute HIV Infection; Senior Leadership Group

Role: Clinical site leader