

**BIOGRAPHICAL SKETCH**

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2.  
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NAME		POSITION TITLE	
Ann M. Dennis		Assistant Professor of Medicine	
EDUCATION/TRAINING ( <i>Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.</i> )			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
The Johns Hopkins University, Baltimore, MD	B.S.	1998	Biomedical Engineering
University of Texas, Austin, TX	M.S.	2000	Environmental Engineering
University of New Mexico, Albuquerque, NM	M.D.	2004	Medicine

**A. Personal Statement.**

My research broadly encompasses the clinical and epidemiologic aspects of HIV/AIDS, particularly among minority and immigrant populations. I am specifically interested in the prevention of primary and secondary HIV transmission on a population level through understanding HIV transmission dynamics using viral and population based phylogenetics. Ongoing research projects include evaluation of HIV transmission networks in North Carolina using phylogenetic reconstruction of HIV pol sequences, comparison of social recruitment and HIV transmission networks in Central America, and the clinical and behavioral features of HIV-infected Latinos in North Carolina. I am also very interested in using phylogenetic methods to evaluate acute infection and to assess the efficacy of prevention programs in high prevalence settings. Other areas of HIV research that I am concerned with include late presentation to care, early testing strategies, and linkage and retention into HIV care among minorities.

**B. Positions and Honors.**Positions and Employment:

07/2005 - 06/2008: Internal Medicine Residency, Brown University/Rhode Island Hospital, Providence, RI

07/2008 - 06/2010: Fellowship in Infectious Diseases, University of North Carolina, Chapel Hill, NC

07/2010 - 07/2011: Postdoctoral Research Fellow, NIH/NIAD T32 Training in Sexually Transmitted Diseases and AIDS, University of North Carolina, Chapel Hill, NC

08/2011 - 04/2012: Clinical Instructor of Medicine, University of North Carolina, Chapel Hill, NC

05/2012 – current: Assistant Professor of Medicine, Division of Infectious Diseases, University of North Carolina, Chapel Hill, NC

Certifications

2008 Diplomat in Internal Medicine, American Board of Internal Medicine

2010 Diplomat in Infectious Diseases, American Board of Internal Medicine

Other Experience and Professional Memberships:

2003 American College of Physicians (ACP), Member

2009 Infectious Diseases Society of America (IDSA), Member

2011 International AIDS Society, Member

Honors:

- 11/2012 Young Investigator Award to present at the National Center for AIDS Research Symposium, University of California at San Francisco
- 03/2012 19<sup>th</sup> Conference on Retroviruses and Opportunistic Infections Young Investigator Award
- 2010-12 NIH Loan Repayment Program in Health Disparities Research
- 2010 48<sup>th</sup> Annual Infectious Disease Society of America (IDSA) Meeting Travel Award
- 2010-11 Bristol-Myers Squibb Virology Research Fellowship Award
- 2010-11 NIH/NIAID T32 Training Grant in Sexually Transmitted Diseases and AIDS
- 2003-04 CDC – BOTUSA Medical Student Research Fellow, Botswana
- 1998-00 Graduate Research Assistantship in Environmental Engineering, University of Texas at Austin
- 1998 Engineering Intern, University of Ljubljana, Slovenia/Johns Hopkins University Exchange Program

**C. Selected Peer-reviewed publications**Peer-Reviewed Manuscripts

Hurt CB and **Dennis AM**. Putting It All Together: Lessons from the Jackson HIV Outbreak Investigation. *Sexually Transmitted Diseases* 2013: In Press.

**Dennis AM**, Wheeler JB, Valera E, Hightow-Weidman L, Napravnik S, Swygard H, Barrington C, Eron JJ. HIV risk behaviors and socio-demographic features of HIV-infected Latinos residing in a new Latino settlement area in the Southeastern United States. *AIDS Care*. Feb 5 2013 [Epub ahead of print].

**Dennis AM**, Murillo W, Hernandez F, Guardado ME, Nieto AI, Lorenzana I, Eron JJ, Paz-Bailey G. Social network based recruitment successfully reveals HIV-1 transmission networks among high risk individuals in El Salvador. *Journal of Acquired Immune Deficiency Syndromes*. Jan 29 2013 [Epub ahead of print].

Aldous JL, Pond SK, Poon A, Jain S, Qin H, Kahn JS, Kitahata M, Rodriguez B, **Dennis AM**, Boswell SL, Haubrich R, Smith DM. Characterizing HIV Transmission Networks across the United States. *Clinical Infectious Diseases*. 2012 Oct; 55(8):1135-43. PMID Pending

**Dennis AM**, Hué S, Hurt CB, Napravnik S, Sebastian J, Pillay D, Eron JJ. Phylogenetic insights into regional HIV transmission. *AIDS*. 2012 Sep 10;26(14):1813-22. PMID Pending

Yanik, EL, Napravnik S, Hurt CB, **Dennis A**, Quinlivan EB, Sebastian J, Kuruc JD, Eron JJ. 2012. Prevalence of Transmitted Antiretroviral Drug Resistance Differs between Acutely and Chronically HIV-Infected Patients. *Journal of Acquired Immune Deficiency Syndromes*. 2012 Oct 1;61(2):258-62. PMID3458150

**Dennis AM**, Napravnik S, Seña AC, and Eron JJ. Late Entry to HIV Care among Latinos compared to non-Latinos in a Southeastern US Cohort. *Clinical Infectious Diseases*. 2011 Sep; 53(5):480-7. - PMID3156142

**Dennis A**, Fraser M, Anderson S, and Allen D. Air pollutant emissions associated with forest, grassland, and agricultural burning in Texas. *Atmospheric Environment*. 2002; 36, 3779-3792

Other

**Dennis A**, Burns D, Eshleman S, and Cohen MS. Phylogeny Studies in HIV Prevention Research. 2012. Meeting Report of the HIV Prevention Trials Network (HPTN), National Institute of Health. Feb 21-22, 2012. Published at: <http://www.hptn.org/web%20documents/IndexDocs/PhylogenyMtgReportMay2012.pdf>

Peer-Reviewed Abstracts

**Dennis AM**, Hué S, Napravnik S, Pasquale D, Hightow-Weidman L, Sebastian J, Pillay D, Eron JJ. HIV Transmission Patterns among Immigrant Latinos Illuminated by the Integration of Phylogenetic and Migration Data. (Poster). The 20<sup>th</sup> Conference on Retroviruses and Opportunistic Infections (CROI), Atlanta, GA, Mar 2013. (Abstract #I-140)

**Dennis AM**, Wheeler JB, Valera E, Hightow-Weidman L, Napravnik S, Swygard H, Barrington C, and Eron JJ. HIV risk behaviors and socio-demographic features of HIV-infected Latinos residing in a new Latino settlement area in the Southeastern United States. (Poster). The XIX International AIDS Conference, Washington DC, Jul, 2012. (Abstract #TUPE100).

**Dennis AM**, Murillo W, Hernandez F, Guardado ME, Nieto AI, Delgado S, Lorenzana I, Eron JJ and Paz-Bailey, G. Phylogenetics among Friends: Comparing HIV-1 Transmission Clusters to Social Network Based Recruitment in El Salvador. (Poster). The 19<sup>th</sup> Conference on Retroviruses and Opportunistic Infections (CROI), Seattle, WA, Mar 2012. (Abstract #F-148)

**Dennis AM**, Hué S, Hurt CB, Napravnik S, Pillay D and Eron JJ. Phylogenetic Insight into HIV Transmission Networks in a Southeastern US Cohort. (Oral presentation). The 6<sup>th</sup> International AIDS Society (IAS) Conference on HIV Pathogenesis, Treatment and Prevention, Rome, Italy, Jul 2011. (Abstract #MOAC0205)

Yanik EL, Napravnik S, Hurt CB, **Dennis A**, Kuruc JD, and Eron JJ. Differences in Prevalence of Transmitted Drug Resistance Mutations Between Acutely and Chronically HIV-Infected, Antiretroviral-Naïve Patients. (Poster). International Workshop on HIV & Hepatitis Virus Drug Resistance and Curative Strategies, Los Cabos, Mexico, Jun 2011

**Dennis AM**, Napravnik S and Eron JJ. Advanced HIV Disease among Latinos Compared to Non-Latinos Initiating Care in a Southeastern US Cohort. (Poster). The 48<sup>th</sup> Annual Meeting of the Infectious Diseases Society of America (IDSA), Vancouver, BC, Oct 2010. (Abstract #1128)

**Dennis AM**, Hué S, Pillay D and Eron JJ. The Molecular Epidemiology of HIV-infected Latinos in North Carolina: *Investigating Transmission Dynamics*. (Poster). 16<sup>th</sup> International Bioinformatics Workshop on Virus Evolution and Molecular Epidemiology, The Johns Hopkins University, Rockville, MD, Sep 2010

**Dennis AM** and Flanigan, T. Unilateral Vision Loss in a 42 year old Girl Scout Leader. (Poster). The American College of Physicians (ACP) Rhode Island Annual Meeting, Warwick, RI, May 2008

**Dennis AM** and Badoe, P. Fever and Chills in a Liberian Woman Residing in New England. (Poster). The American College of Physicians (ACP) Rhode Island Annual Meeting, Warwick, RI, May 2006

**Dennis AM**, Guillebaud CS, and Cheek JE. Analysis of Hantavirus Pulmonary Syndrome Cases 1992-2000 and Environmental Characteristics Utilizing a Geographic Information System Framework. (Poster). The American College of Physician (ACP) New Mexico Annual Meeting, Albuquerque, NM, Nov 2004

Nelson LJ, Talbot EA, **Dennis AM**, Guillebaud CS, Masunge J, Bodika SN, Nyirenda ST, Jibril H, Dimiti AI, Kurup S, Mwasekaga MJ, Kilmarx PH, Samandari T, Wells CD. "Diagnostic Methods for Tuberculosis in Children in Botswana". (Poster). The International Union Against Tuberculosis and Lung Disease (IUATLD) meeting, Paris, France, Oct 2004

Nelson LJ, Talbot EA, **Dennis AM**, Guillebaud CS, Masunge J, Jibril H, Dimiti AI, Kurup S, Kilmarx PK, Samandari T, Wells CD. "Diagnosing HIV and Tuberculosis in Children in Botswana". (Poster). The XV International AIDS Conference, Bangkok, Thailand, Jul 2004

- D. Research Support.** List selected ongoing or completed research projects (federal and non-federal support). Begin with the projects that are most relevant to the research proposed in this application. Briefly indicate the overall goals of the projects and your role (e.g. PI, Co-Investigator, Consultant) in the research project. Do not list award amounts or percent effort in projects.

Ongoing Research Support

Interdisciplinary Clinical Research Career Development Program (KL2 RR025746) 08/01/11 – 04/30/13  
Ethnic and Risk Factor Correlates to HIV Transmission Dynamics in North Carolina

Role: Principal Investigator

Purpose: To determine the contribution of race/ethnicity, transmission risk group, and duration of infection towards the propagation of local HIV transmission chains.

Completed Research Support

NIH Health Disparities Research Loan Repayment Program	09/2010 – 08/2012
NC Translational and Clinical Sciences Institute Pilot Grant (10KR61007) <i>Molecular Epidemiology of HIV among Latinos in North Carolina</i> Role: Principal Investigator Purpose: Pilot grant to conduct a survey of HIV-infected Latinos in NC to better understand influence of behavioral, demographic and migration factors on the spread of HIV.	06/2010 – 08/2011
5 T32 AI 07001-33 <i>Training in Sexually Transmitted Diseases and AIDS</i> Role: Trainee Purpose: This institutional T32 training grant supports the development of clinical researchers focused on the biology, transmission, and prevention of sexually transmitted infections, including HIV.	04/01/10 – 08/01/11
Bristol-Myers Squibb Virology Fellowship <i>Molecular Epidemiology of HIV among Latinos in North Carolina</i> Role: Principal Investigator Purpose: Using phylogenetic analyses of HIV-pol sequences to explore the HIV transmission dynamics between Latinos and non-Latinos in North Carolina	07/01/10 – 06/30/11