

CURRICULUM VITAE
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Division of Infectious Diseases
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EDUCATION

Undergraduate University of Vermont, Major: Microbiology, Minor:
Computer Science, BS, 1996-2001.

Graduate University of Vermont, Molecular Genetics, MS, 2001-2004.

Medical School University of Vermont, MD, 2001-2006.

POSTGRADUATE TRAINING

Residency Brown Medical School/Rhode Island Hospital, General
Internal Medicine Residency Program, Providence, RI, 2006-
2009.

Fellowship (Clinical) Brown Medical School/Rhode Island Hospital, Infectious
Diseases Fellowship, Providence, RI, 2009-2011.

Fellowship (Research) Brown Medical School/Rhode Island Hospital, T32 HIV
Research Fellowship, Providence, RI, 2011-2011.

POSTGRADUATE HONORS AND AWARDS

Infectious Disease Society of America Travel Grant, 2011
Infectious Disease Society of America Travel Grant, 2010
Vermont Freeman Scholarship, 2005-2006

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

American Board of Internal Medicine Certified (2009)
Infectious Diseases Board Certified (2011)
Rhode Island Medical License (MD12984)
BCLS/ACLS Certification

ACADEMIC APPOINTMENTS

Assistant Professor of Medicine, Brown Medical School, 2012-present.

HOSPITAL APPOINTMENTS

Attending Physician, Rhode Island Hospital, Providence, RI, 2012-present.

Attending Physician, The Miriam Hospital, Providence, RI, 2012-present.

Attending Physician, Women's and Infants Hospital, Providence, RI, 2012-present.

MEMBERSHIP IN SOCIETIES

Infectious Disease Society of America, 2009-Current

American College of Physicians, 2006-2009

American Medical Association, 2002-2006

PUBLICATIONS LIST

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

Chan PA, Huang A, Kantor R. (2012). "Low prevalence of transmitted K65R and other tenofovir resistance mutations across different HIV-1 subtypes: implications for pre-exposure prophylaxis." *Journal of the International AIDS Society*, October 15: 17701.

Chan PA, Kazi S, Rana, A, Blazar I, DeJong CC, Mayer KH, Huard TK, Carleton K, Gillani F, Alexander N, Parillo Z, Flanigan TP, Kantor R. (2012). "New HIV infections at Southern New England academic institutions: Implications for prevention." *AIDS Research and Human Retroviruses*, July 25.

Alexander NE, **Chan PA**, Rogo TO, Parillo Z, Browning CA, Isabell, BS, Calcione C, Chowdhury S, Simon P, Kantor R. (2012). "Interrupting Transmission of HIV and Other Sexually Transmitted Infections in Rhode Island." *Medicine and Health Rhode Island*. August; 95(8):241-4.

Chan PA, Janvier M, Alexander NE, Kojic EM, Chapin K. (2012). "Recommendations For the Diagnosis of Neisseria gonorrhoeae and Chlamydia trachomatis." *Medicine and Health Rhode Island*, August; 95(8); 252-4.

Mayer KH, Ducharme R, Zaller N, **Chan PA**, Case P, Abbott D, Rodriguez I, Cavanaugh T. (2011). "Unprotected sex, underestimated risk, undiagnosed HIV and sexually transmitted diseases among men who have sex with men accessing testing services in a New England Bathhouse." *JAIDS*, February 1; 59(2):194-8.

Trinh TT, **Chan PA**, Edwards O, Hollenbeck B, Huang B, Burdick N, Jefferson JA, Mermel LA. (2011) "Peripheral Venous Catheter-Related Staphylococcus aureus Bacteremia." *Infection Control and Hospital Epidemiology*, 32(6): 579-83

Miller PJ, Duraisamy S, Newell JA, **Chan PA**, Tie MM, Rogers AE, Ankuda CK, von Walstrom GM, Bond JP, Greenblatt MS. (2011) "Classifying variants of CDKN2A using computational and laboratory studies." *Human Mutation*, August; 32(8):900-11.

Chan PA, Tashima K, Cartwright CP, et al. (2011) "Transmitted drug resistance and molecular epidemiology in antiretroviral naïve HIV-1 infected patients in Rhode Island." *AIDS Research and Human Retroviruses* 27(3): 275-281.

Westley BP, **Chan PA**. (2010) "Questions remain regarding mandatory use of macrolides in community-acquired pneumonia." *Intensive Care Medicine* 36(10):1787.

Chan PA, Connell NT, Gabonay AM, et al. (2010). "Oseltamivir-resistant 2009-2010 pandemic influenza A (H1N1) in an immunocompromised patient." *Clin Microbiol Infect.* 16(10): 1576-1578.

Chan PA and Kantor R (2009). "Transmitted drug resistance in nonsubtype B HIV-1 infection." *HIV Therapy* 3: 447-465.

Kantor R, Diero L, Delong A, Kamle L, Muyonga S, Mambo F, Walumbe E, Emonyi W, **Chan P**, Carter EJ, Hogan J, Buziba N. (2009). "Misclassification of first-line antiretroviral treatment failure based on immunological monitoring of HIV infection in resource-limited settings." *Clinical Infectious Disease* 49: 454-462.

Chan PA. (2008). "Interpreting missense mutations in Human TRIM5alpha by computational methods." *BMC Research Notes* 1:116.

Chan PA, Wakeman SE, Flanigan T, Cu-Uvin S, Kojic E, Kantor R (2008). "HIV-2 diagnosis and quantification in high-risk patients." *AIDS Research and Therapy* 5:18.

Chan PA, Wakeman SE, Angelone A, Mermel LA. (2008). "Investigation of multi-drug resistant microbes in retail meats." *Journal of Food, Agriculture & Environment* 6: 132-136.

Gulick RM, **Chan PA**, Kantor R. (2008). "Vicriviroc." www.antimicrobe.org.

Gulick RM, **Chan PA**, Kantor R. (2008). "Enfuvirtide (T-20)." www.antimicrobe.org.

Chan PA and Khan OA. (2007). "Risk factors for HIV infection in Males who have Sex with Males (MSM) in Bangladesh." *BMC Public Health* 7(1): 153.

Chan PA, Duraisamy S, Miller PJ, Newell JA, McBride C, Bond JP, Raevaara T, Ollila S, Nystrom M, Grimm AJ, Christodoulou J., Oetting WS, Greenblatt MS. (2007). "Interpreting missense variants: comparing computational methods in human disease genes CDKN2A, MLH1, MSH2, MECP2, and tyrosinase (TYR)." *Hum Mutat* 28(7): 683-693.

Chan PA and Rabinowitz T. (2006). "A cross-sectional analysis of video games and attention deficit hyperactivity disorder symptoms in adolescents." *Ann Gen Psychiatry* 5: 16.

Ollila S, Sarantaus L, Kariola R, **Chan P**, Hampel H, Holinski-Feder E, Macrae F, Kohonen-Corish M, Gerdes AM, Peltomaki P, Mangold E, de la Chapelle A, Greenblatt M, Nystrom M. (2006). "Pathogenicity of MSH2 missense mutations is typically associated with impaired repair capability of the mutated protein." *Gastroenterology* 131(5):1408-1417.

Pinard R, Hampel KJ, Heckman JE, Lambert D, **Chan PA**, Major F, Burke JM. (2001). "Functional involvement of G8 in the hairpin ribozyme cleavage mechanism." *Embo J* 20(22): 6434-6442.

Walter NG, **Chan PA**, Hampel KJ, Millar DP, Burke JM. (2001). "A base change in the catalytic core of the hairpin ribozyme perturbs function but not domain docking." *Biochemistry* 40(8): 2580-2587.

PUBLICATIONS SUBMITTED OR IN PREPARATION

Patel N, Thomas A, **Chan PA**, MD, and Rana, A. (2012). "HIV and syphilis in college-aged MSM: Are we doing enough?"

ABSTRACTS

Chan PA, Grin B, Operario D. Acute HIV infection knowledge among at-risk college students in the United States. In: Infectious Disease Society of America (IDSA). San Diego, California, 2012.

Rogo T, DeLong AK, **Chan PA**, Kantor R. High levels of Diversity and Drug resistance in the only Pediatric HIV Clinic in Rhode Island. In: Infectious Disease Society of America (IDSA). San Diego, California, 2012.

Janvier M, Alexander NE, **Chan PA**, Kojic E, Chapin KC. Detection of Neisseria gonorrhoeae and Chlamydia trachomatis, involving extra-genital sites. In: Infectious Disease Society of America (IDSA). San Diego, California, 2012.

Chan PA, Huang A, Kantor R. Low Prevalence of Transmitted Reverse Transcriptase Mutation K65R across Different HIV-1 Subtypes. In: Infectious Disease Society of America (IDSA). Boston, Massachusetts, 2011.

Chan PA, Rana A, Parillo Z, Loberti P, et al. High Rates of Acute HIV Infection Among Recently Diagnosed Students from Rhode Island. In: 2011 National HIV Prevention Conference. Atlanta, Georgia, 2011.

Chan PA, Chapin KC, Andrea SB, et al. Distinguishing Characteristics Between Novel 2009-2010 Influenza A (H1N1) and Other Viruses in Patients Presenting with Respiratory Illness. In: Infectious Disease Society of America (IDSA). Vancouver, Canada, 2010.

Chan PA, Tashima K, Cartwright CP, et al. Transmitted drug resistance and molecular epidemiology in antiretroviral naïve HIV-1 infected patients in Rhode

Island. In: Department of Medicine 16th Annual Research Forum. Providence, Rhode Island, USA, 2010.

Chan PA. Characterization of non-synonymous single nucleotide polymorphisms by comparative sequence analysis. In: American College of Physicians, Rhode Island Chapter. Warwick, Rhode Island, USA, 2009.

Chan PA. Predicting HIV viral load by immunological trends: Implications for identification of treatment failure in resource-poor settings. In: Department of Medicine 14th Annual Research Forum. Providence, Rhode Island, USA, 2008.

Chan PA, Wakeman SE, Angelone A and Mermel LA. You are what you eat: Investigation of microbial pathogens in retail meats. In: Department of Medicine 14th Annual Research Forum. Providence, Rhode Island, USA, 2008.

Gartman E, **Chan PA** and Ward NS. Rising severity scores in severely ill patients: Predicting futility. In: American Thoracic Society International Conference. San Francisco, California, USA, 2007.

Kelley MB, **Chan PA.** Anti-synthetase syndrome masquerading as Bird Fancier's Lung. In: American College of Physicians, Vermont Chapter. Stowe, Vermont, USA, 2005.

Chan PA, Kelley MB and Zubarik RS. Oriental cholangiohepatitis in rural Vermont. In: American College of Physicians, Vermont Chapter. Stowe, Vermont, USA, 2005.

Chan PA, Duraisamy S, Murphy JA, et al. Validating predictions of benign versus pathogenic genetic variation by four methods of comparative sequence analysis in human disease genes CDKN2A, MLH1, MECP2, and Tyrosinase. In: Human Genome Variation Society. Salt Lake City, Utah, USA, 2005.

Chan PA. A study of folding and catalysis in the hairpin ribozyme using 2-aminopurine fluorescence. Master's Thesis Defense: University of Vermont, 2004.

Walter NG, **Chan PA, Hampel KJ, Millar DP and Burke JM.** A native-like kinetic folding trap in the hairpin ribozyme. In: Gordon Research Conference, Nucleic Acids '99. Newport, Rhode Island, USA, 1999.

Walter NG, **Chan PA, Hampel KJ, Millar DP and Burke JM.** A native-like kinetic folding trap in the hairpin ribozyme. In: Fourth annual meeting of The RNA Society. Edinburgh, United Kingdom, 1999.

INVITED PRESENTATIONS

“The New HIV Statute and Regulations: Practical Guidance for Rhode Island Clinicians.”
Newport Hospital Grand Rounds, Newport, RI, May 18, 2012.

“HIV Among College Students: College Health Considerations.” The 15th Annual MAI Summit on HIV and Adolescents/Young Adults, Taunton, MA. March 23, 2012.

“HIV/AIDS: The Past, Present, and Future of Research and Medicine.” IvyQ Conference, Brown University, Providence, RI. February 18, 2012.

“Biomedical Interventions for HIV Prevention.” RI 25 by 5 Coalition, The John Hope Settlement House, Providence, RI. December 9, 2011.

GRANTS

1K23AI096923-01, Philip A. Chan (PI) 9/19/11-8/31/16
Molecular Epidemiology of HIV Transmission Networks
National Institute of Allergy and Infectious Diseases
Role: Principal Investigator

5T32MH078788-05, Larry K. Brown (PI) 7/1/11-1/1/12
National Institute of Mental Health
Biobehavioral HIV Research Fellowship

Center for AIDS Research Development Grant, Lynn Hernandez (PI) 5/1/12-4/30/13
Supporting Pre-Exposure Prophylaxis among Serodiscordant Men Who Have Sex with Men Couples: A Clinical Assessment of Bio-behavioral Risk.
Role: Co-Investigator

Center for AIDS Research Development Grant, Philip A. Chan (PI) 7/1/12-6/30/13
Molecular Epidemiology of HIV Transmission Networks between Rhode Island and Massachusetts
Role: Principal Investigator

UNIVERSITY TEACHING ROLES

Thesis Co-mentor, Brown University Program in Public Health, Benjamin Grin, 2012
Guest Lecturer, Brown University, PHP 2330: Behavioral and Social Approaches to HIV, Prevention, 2012.
Brown Medical School, Small Group Leader, Microbiology, 2012.

HOSPITAL TEACHING ROLES

Consult attending, Division of Infectious Diseases, Rhode Island Hospital, 2012-present.
HIV Clinic Preceptor, The Miriam Hospital Immunology Center, 2012-present.