

# HOLLI HUTCHESON DILKS, PH.D.

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## EMPLOYMENT EXPERIENCE

### **LIPSCOMB UNIVERSITY COLLEGE OF PHARMACY – NASHVILLE, TN** **Assistant Professor in Department of Pharmaceutical Sciences**

**07/2008-PRESENT**

Develop, coordinate, and team-teach various courses for first year Student Pharmacists.  
Prepare lectures, assignments, assessments, laboratory experiments and examinations.

### **SRI, INTERNATIONAL – ARLINGTON, VA** **Science and Technology Manager to Program Director**

**2005-05/2008**

Developed, coordinated, managed, and wrote successful white papers and proposals.  
Planned, coordinated, and led projects involving development and/or deployment of drug development technologies with internal and external collaborators.  
Designed and implemented processes and tools for accelerating the development of biothreat countermeasures.  
Identified and evaluated existing and emerging technologies, and technology sources in Biotechnology and Pharmaceutical Sectors.  
Constructed, implemented, and maintained databases of processes, technologies, and technology/service providers.  
Conducted and prepared technical literature and site reviews.

### **NIH/NCI LABORATORY OF GENOMIC DIVERSITY (LGD) – FREDERICK, MD** **Postdoctoral Cancer Research Training Award Fellow**

**2002-2005**

Initiated and managed human genetic collaborative projects searching for host nuclear and mitochondrial genes that influence HIV-1/AIDS resistance or susceptibility (budgets in excess of \$800,000).  
Conceived and elaborated a computer program (ARG ARRAY) developed by the NCI Frederick Advanced Biocomputing Group to visualize large amounts of association data in a genomic context.  
Negotiated multiple contracts and collaborations between academic and industrial groups and LGD.  
Managed high throughput genotyping core laboratory (responsible for > 2.0 million genotypes/week).

### **BROAD INSTITUTE OF MIT AND HARVARD – CAMBRIDGE, MA** **Visiting Scientist**

**2002-2005**

Coordinated collaboration investigating the role of variation and selection in 168 candidate genes in resistance or susceptibility to HIV-1/AIDS.  
Led comparative cross-platform validation analysis to evaluate four commercial novel genotyping platforms.

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## EDUCATION AND RESEARCH ACCOMPLISHMENTS

- 2002-2005 Postdoctoral Cancer Research Training Award (CRTA) Fellow  
NIH-National Cancer Institute (NCI), Laboratory of Genomic Diversity (LGD),  
Frederick, Maryland  
Advisor: Stephen J. O'Brien, Ph.D.  
Research Focus: Human Genetics  
Project: "Genetic Analysis of HIV/AIDS"
- 2002-2005 Visiting Scientist  
Broad Institute of MIT and Harvard, Cambridge, MA  
Collaborators: Eric Lander, Ph.D. and David Altshuler, M.D., Ph.D.  
Research Focus: Human Genetics  
Project: "Genetic Analysis of HIV/AIDS"
- 1997-2002 Ph.D., Department of Molecular Physiology and Biophysics  
Vanderbilt University, Nashville, Tennessee  
Advisor: Jonathan L. Haines, Ph.D.  
Research Focus: Human Genetics  
Dissertation Title: "Examination of Chromosome 7 in Autism"
- 1993-1996 B.A. (magna cum laude)  
Lipscomb University, Nashville, Tennessee  
Major: Biology  
Minor: Spanish

## HONORS

- 2002-2005 NCI CRTA Postdoctoral Fellowship (5 year award: stipend)  
1998-2000 Predoctoral Fellow, CBMS Training Grant, DHHS (5 year award: tuition and stipend)  
1994-1996 Senator-At-Large, Lipscomb University Student Government Association  
1994-1995 Who's Who Among Students in American Universities and Colleges  
1993-1996 Lipscomb University Academic and Tennis Scholarship (4 year award: tuition)

## PUBLICATIONS

1. Bradford Y, Haines J, **Hutcheson H**, Gardiner M, Braun T, Sheffield V, Cassavant T, Huang W, Wang K, Vieland V, Folstein S, Santangelo S, Piven J. 2001. Incorporating language phenotypes strengthens evidence of linkage to autism. American Journal of Medical Genetics 105(6):539-47.
2. Nurmi EL, Bradford Y, Chen Y, Hall J, Arnone B, Gardiner MB, **Hutcheson HB**, Gilbert JR, Pericak-Vance MA, Copeland-Yates SA, Michaelis RC, Wassink TH, Santangelo SL, Sheffield VC, Piven J, Folstein SE, Haines JL, Sutcliffe JS. 2001. Linkage disequilibrium at the Angelman syndrome gene UBE3A in autism families. Genomics 77(1-2):105-13, 2001.
3. **Hutcheson HB**, Bradford Y, Folstein SE, Gardiner MB, Santangelo SL, Sutcliffe JS, Haines JL.. Defining the Autism Minimum Candidate Gene Region on Chromosome 7. American Journal of Medical Genetics 117B:90-96, 2003.
4. Summar ML, Hall LD, Eeds AM, **Hutcheson HB**, Kuo AN, Willis AS, Rubio V, Arvin MK, Schofield JP, Dawson EP. Characterization of genomic structure and polymorphisms in the human carbamyl phosphate synthetase I gene. Gene 311:51-7, 2003.

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**PUBLICATIONS CONTINUED**

5. **Hutcheson HB**, Olson LM, Bradford Y, Folstein SE, Santangelo SL, Sutcliffe JS, Haines JL. Examination of NRCAM, LRRN3, KIAA0716, and LAMB1 as autism candidate genes. BioMed Central Medical Genetics 5(1):12, 2004.
6. Martin MP, Lederman M, **Hutcheson HB**, Nelson GW, Goedert JJ, Detels R, Buchbinder S, Hoots K, Vlahov D, O'Brien SJ, Carrington M. DC-SIGN promoter polymorphism: Association with increased risk for parenteral, but not mucosal acquisition of HIV-1 infection. Journal of Virology 78(24):14053-6, 2004.
7. Walsh EC<sup>‡</sup>, Sabeti P<sup>‡</sup>, **Hutcheson HB**<sup>‡</sup>, Fry B<sup>‡</sup>, Schaffner S, de Bakker P, Varilly P, Roy J, Cooper R, Zeng Y, Guo XC, Lander ES, O'Brien SJ, Altshuler D. Searching for signals of selection in 168 immune-related genes. Human Genetics 119(1-2):92-102, 2005.  
<sup>‡</sup> These authors contributed equally to this work.
8. Sabeti PC, Walsh E, Schaffner SF, Varilly P, Fry B, **Hutcheson HB**, Cullen M, Mikkelsen TS, Roy J, Patterson N, Cooper R, Reich D, Altshuler D, O'Brien S, Lander ES. The case for selection at CCR5-Delta32. PLoS Biol. 3(11):e378, 2005.
9. Bashirova AA, Bleiber G, Qi Y, **Hutcheson H**, Yamashita T, Johnson RC, Cheng J, Alter G, Goedert J, Buchbinder S, Hoots K, Vlahov D, May M, Maldarelli F, Jacobson L, O'Brien SJ, Telenti A, Carrington M. Consistent Effects of Variation in the Tumor Susceptibility Gene 101 on Multiple Outcomes to HIV-1 Exposure. Journal of Virology 80(14):6757-63, 2006.
10. Guo XC, O'Brien SJ, Winkler C, Scott K, **Hutcheson H**, David V, Kessing B, Zheng YM, Liao J, Lui Y, Guy de T, Zeng Y. Association study of chromosome 4 STRs polymorphisms with nasopharyngeal carcinoma. Yi. Chuan 28(7): 783-790, 2006.
11. Guo XC, Scott K, Liu Y, Dean M, David V, Nelson GW, Johnson RC, **Dilks HH**, Lautenberger J, Kessing B, Martenson J, Guan L, Sun S, Deng H, Zheng Y, de The G, Liao J, Zeng Y, O'Brien SJ, Winkler CA. Genetic factors leading to chronic Epstein-Barr virus infection and nasopharyngeal carcinoma in South East China: study design, methods and feasibility. Human Genomics 2(6):365-375, 2006.
12. Lind JM, **Hutcheson-Dilks H**, Williams SM, Essex M, Tishkoff SA, O'Brien SJ, and Smith MW. Elevated male European and female African contributions to the genomes of African American individuals. Human Genetics 120(5):713-722, 2007.
13. An P, Wang LH, **Hutcheson-Dilks H**, Nelson G, Donfield S, Goedert JJ, Rinaldo CR, Buchbinder S, Kirk GD, O'Brien SJ, Winkler CA. Regulatory Polymorphisms in the Cyclophilin A Gene, PPIA, Accelerate Progression to AIDS. PLoS Pathogen 3(6): e88, 2007.
14. **Hutcheson HB**, Nelson G, Lautenberger J, Kessing B, Pontius J, Winkler C, Smith M, Carrington M, Dean M, Johnson R, Stephens R, Phair J, Goedert J, Donfield,S, Walsh E, Altshuler D, and O'Brien SJ. Detecting AIDS restriction genes: From candidate genes to genome-wide association discovery, Vaccine 26 (24): 2951-2965, 2008.
15. Hendrickson SL, **Hutcheson HB**, Ruiz-Pesini E, Poole JC, Lautenberger J, Sezgin E, Kingsley L, Goedert JJ, Vlahov D, Donfield S, Wallace DC, O'Brien SJ. Mitochondrial DNA haplogroups influence AIDS progression. AIDS 22(18): 2429-39, 2008.

**INVITED PRESENTATIONS**

- November 2005      “Know Your Indication” Employee Short Course  
Novartis Institutes for BioMedical Research, Cambridge, MA
- November 2002      “Examination of Candidate Genes for Autism on Chromosome 7”  
International Meeting for Autism Research, Orlando, FL
- October 2001      “Examination of Candidate Genes for Autism on Chromosome 7”  
World Congress for Psychiatric Genetics Conference, St. Louis, MO
- March 2001      “An approach to isolating ‘the most likely interval’ using haplotype data”  
The Autism Genetics Workshop, Callaway Gardens, GA

**PROFESSIONAL MEMBERSHIPS**

- Since 1998      American Society of Human Genetics (ASHG)
- Since 2008      American Association of Colleges of Pharmacy (ACCP)
- Since 2008      Tennessee Pharmacists Association (TPA)