

# Hope Hamrick Biswas

## Personal Data

Blood Systems Research Institute  
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## Education and Training

University of California, Berkeley School of Public Health, Berkeley, CA.  
Ph.D. in Epidemiology, expected 2013.  
Advisor: Arthur L. Reingold, M.D.

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD.  
Sc.M. in Infectious Disease Epidemiology, 2007.  
Thesis topic: Risk factors for African tick-bite fever in rural central Africa.  
Advisor: Nathan D. Wolfe, D.Sc.

Wellesley College, Wellesley, MA.  
B.A. in Psychology, cum laude, 2003.

## Professional Experience

Staff Scientist 2007-present  
Blood Systems Research Institute San Francisco, CA  
Projects: Neurological abnormalities and increased mortality in a cohort of HTLV-I/II infected blood donors; HCV genetic evolution and cellular immune responses during acute infection in blood donors; Evaluating the pathogenicity of novel human viruses using epidemiologic methods.

Research Trainee Summer 2006  
National Institutes of Health, National Institute of Allergy and Infectious Diseases Bethesda, MD  
Project: Worldwide differences in type-specific HSV-2 seroprevalence.

Technical Research Assistant 2004-2005  
Brigham and Women's Hospital, Channing Laboratory Boston, MA  
Performed laboratory procedures to study the role of the alpha-C surface protein in Group B Streptococcus invasive infection.

Clinical Research Assistant 2003-2004  
Beth Israel Deaconess Medical Center Boston, MA  
Collected data and developed instruments for a study examining patient-clinician communication about medications and adverse drug events.

Clinical Research Assistant Summer 2002  
Massachusetts General Hospital Boston, MA  
Collected data and developed instruments for a study on the use of a population email program to manage care of patients with type 2 diabetes.

Clinical Research Assistant Spring 2002  
Massachusetts General Hospital Boston, MA  
Analyzed data from a pilot study on the reasons for lack of promotion of minority medical school faculty members.

Student Intern Summer 2001  
Centers for Disease Control and Prevention Atlanta, GA  
Performed literature reviews and analyzed data to evaluate the existing prevention guidelines for Group B streptococcal disease.

Student Intern Summer 2000  
Centers for Disease Control and Prevention Atlanta, GA  
Performed laboratory procedures to detect *Chlamydia pneumoniae*.

### Professional Associations

Member, American Association of Blood Banks, 2008-present  
Reviewer, *PLoS One*, 2009  
Reviewer, *Transfusion*, 2008-present

### Honors and Awards

Master's Tuition Scholarship, Johns Hopkins Bloomberg School of Public Health, 2006  
National Institutes of Health Intramural Research Training Award, 2006  
Oprah Winfrey Award for Volunteerism, Wellesley College, 2003  
Psi Chi (National Honor Society in Psychology), 2002  
First-Year Student Academic Distinction Award, Wellesley College, 2000

### Presentation and Publications

**Biswas HH**, JW Engstrom, Z Kaidarova, G Garratty, JW Gibble, BH Newman, JW Smith, A Ziman, JL Fridey, EL Murphy (2009) Neurological abnormalities in HTLV-I- and -II-infected individuals without overt myelopathy. *Neurology* 73:781-9.

Murphy EL, **HH Biswas** (2009) Human T-cell lymphotropic virus types I and II. In Mandell GL, Bennett JE, Dolin R (eds.) *Principles and Practices of Infectious Diseases* New York: Churchill Livingstone. (in press)

**Biswas HH**, JW Engstrom, Z Kaidarova, G Garratty, JW Gibble, BH Newman, JW Smith, A Ziman, JL Fridey, EL Murphy (2009) Increased all-cause and cancer mortality in HTLV-II infection. (submitted)

**Biswas HH\***, LM Ndip\*, LE Nfonsam, M LeBreton, RN Ndip, DH Bouyer, ND Wolfe (2009) Risk factors for African tick-bite fever in rural central Africa. (in progress)

\*Co-first authors.

Law J, DF Hirschhorn, RE Owen, **HH Biswas**, PJ Norris, MC Lanteri (2009) The importance of Foxp3 antibody and fixation/permeabilization buffer combinations in identifying CD4+CD25+Foxp3+ regulatory T cells. *Cytometry* (submitted)

Owen RE, JW Heitman, DF Hirschhorn, MC Lanteri, **HH Biswas**, JN Martin, M Krone, SG Deeks, PJ Norris (2009) HIV+ elite controllers have elevated systemic inflammation without compensatory increases in regulatory T cells yet maintain strong, polyfunctional T cell responses. *AIDS* (submitted)

Weingart SN, **HE Hamrick**, S Tutkus, A Carbo, DZ Sands, A Tess, RB Davis, DW Bates, RS Phillips (2008) Medication safety messages for patients via the web portal: The MedCheck intervention. *International Journal of Medical Informatics* 77(3):161-8.

**Hamrick HE**, O Laeyendecker, JS Smith, TC Quinn. World of Herpes: Differences in HSV-2 Prevalence (2006) *National Institutes of Health, Summer Research Program Poster Day*.

Yang J, X Zheng-Ping, Y Huang, **HE Hamrick**, PJ Duerksen-Hughes, Y Ying-Nian (2004) ATM and ATR: sensing DNA damage. *World Journal of Gastroenterology* 10(2):155-160.

Grant RW, **HE Hamrick**, CM Sullivan, AK Dubey, HC Chueh, E Cagliero, JB Meigs (2003) Impact of population management with direct physician feedback on care of patients with type 2 diabetes. *Diabetes Care* 26:2275-2280.

Yang J, Y Yu, **HE Hamrick**, PJ Duerksen-Hughes (2003) ATM, ATR and DNA-PK: Initiators of the cellular genotoxic stress responses. *Carcinogenesis* 24(10):1571-1580.

## Abstracts

**Biswas HH**, Z Kaidarova, G Garratty, JW Gible, BH Newman, JW Smith, A Ziman, JL Friday, RA Sacher, EL Murphy (2009) Increased all-cause and cancer mortality associated with HTLV-II infection. *American Association of Blood Banks Conference 2009* (accepted)

Custer B, M Agapova, **HH Biswas**, MP Busch, P Tomasulo, H Kamel. Do pre-donation questions identify donors at higher risk for *Trypanosoma cruzi* infection? *American Association of Blood Banks Conference 2009* (accepted)

**Biswas HH**, JW Engstrom, Z Kaidarova, G Garratty, JW Gible, BH Newman, JW Smith, A Ziman, JL Friday, RA Sacher, EL Murphy. Neurological abnormalities in HTLV-I and -II infected individuals without overt HTLV-associated myelopathy. *International HTLV Conference 2009*

**Biswas HH**, Z Kaidarova, G Garratty, JW Gible, BH Newman, JW Smith, A Ziman, JL Friday, RA Sacher, EL Murphy (2009) Increased all-cause and cancer mortality associated with HTLV-II infection. *International HTLV Conference 2009*

Snyder-Cappione JE, M Bartman, D Hirschhorn, **HH Biswas**, D DeVita, CP Loo, P Norris, DF Nixon, EL Murphy. Translational studies in a 14-year cohort of HTLV-I and -II infected humans: disease associations with total lymphocyte count, Treg and NKT cells. *The HTLV European Research Network Conference 2008*

**Biswas HH**, JW Engstrom, Z Kaidarova, G Garratty, JW Gibble, BH Newman, JW Smith, A Ziman, JL Friley, RA Sacher, EL Murphy. Prospective analysis of neurological abnormalities in a cohort of HTLV-I and -II infected blood donors. *International HTLV Conference 2007*

### **Research Grant Participation**

**Title:** "Natural history of acute and chronic HCV infections in blood donors"

**Date:** 9/2003-8/2009

**Sponsoring Agency:** National Institutes of Health, National Heart, Lung and Blood Institute

**Principal Investigator:** Michael P. Busch, M.D., Ph.D.

**Main Grant Objective:** To investigate HCV genetic evolution and cellular immune responses during acute infection

**Principal Responsibilities of Individual:** Co-Principal Investigator, to assist in the study design and epidemiology components of the study

### **Community Service**

Volunteer, Gwalior Children's Hospital, Madhya Pradesh, India, Summer 2003

### **Additional Information**

Computer: Fluent in STATA; Experience with SAS, R

Languages: Conversational French, Beginning Hindi and Bengali