

Nancy A. Nix

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Education/Training

- 1998 MEd: International Teaching
Framingham State College, Framingham, MA
- 1989-1992 Post-Doctoral Fellowship: Molecular Parasitology Training Program
Meharry Medical College and Vanderbilt University, Nashville, TN
- 1988 MPH&TM: Tropical Medicine; International Health
Tulane University-School of Public Health & Tropical Medicine, New Orleans, LA
- 1985 Certificate of Study in Aging
University of Washington - Institute on Aging, Seattle, WA
- 1982 MD: General Medicine
Universidad CETEC-School of Medicine, Santo Domingo, Dominican Republic
- 1977 BS: Geography (minor: Anthropology)
Utah State University, Logan, UT

Certification

- 1999-present Certified Health Education Specialist (CHES), National Commission for Health Education Credentialing
- 1977 Emergency Medical Technician-Ambulance (EMT-A), National and State of Utah Certification, Logan, UT

Professional Experience

- Jul 2008-present **Assistant Professor, Public Health**
University of Alaska Anchorage (UAA), Department of Health Sciences, Anchorage, AK,
Responsible for teaching, research and service; Faculty in the Master of Public Health Program; Research interests in global and community health, primary health care, and integrated approaches.
- Dec 2007-Apr 2008 **Public Health Specialist**
Collaborated with NGO representatives on health and community projects; Participated in organizational meetings and planning sessions.
- Nov 2006-Nov 2007 **Senior Program Specialist**
Curamericas Global, Inc., Raleigh, NC,
Technical backstop for USAID-funded Child Survival Projects in Bolivia and Guatemala: to reduce maternal and child mortality using a census-based, impact-oriented methodology. Oversaw technical proposals, concept papers, final evaluations, and institutional strengths assessment.

Dec 2005-Oct 2006 **Health Education Program Manager**
Spectrum Healthcare Resources, Eielson AFB, AK,
Managed the Health Education and Promotion Program/ Health and Wellness
Center (HAWC) on Eielson AFB; Led tobacco cessation program and facilitated
other health education programs.

Aug 2005-Feb 2006 **Public Health Specialist**
Researched and prepared materials on health topics for trainers and assisted
health professionals; Promoted asset-based approach and community health
strategies.

Jan 2003-Jul 2005 **Associate Peace Corps Director - Health & Environment Programs**
US Peace Corps, Ulaanbaatar, Mongolia,
Oversaw Peace Corps Mongolia (PCM) Community-Based Health and
Environment Programs; Served as Western Region Manager in 7 aimags
(provinces); Facilitated technical training for volunteers and local health
professionals.

Jun 2000–Jan 2003 **Public Health Advisor**, Centers for Disease Control and Prevention (CDC),
National Immunization Program, Immunization Services Division, Program
Operations Branch.
Assigned to: **Wyoming Health Department**, Cheyenne, WY-Jun 2001-Jan 2003,
Acting Program Manager: Mar-Jun 2002; **Puerto Rico Department of Health**,
San Juan, PR-Jun 2000-Jun 2001.
Advised and assisted state health department immunization programs with
programmatic, operational, and technical issues related to immunizations and
vaccine-preventable diseases. Initiated and/or strengthened collaborative
program efforts with state epidemiologists on surveillance of vaccine-preventable
diseases, hepatitis C project, immunization provider practices and quality
assurance.

Jun 1999-Jun 2000 **Health Program Manager**
American Heart Association, Albuquerque, NM,
Coordinated new statewide program in New Mexico for a national initiative,
"Operation Heartbeat"; a program to strengthen the chain of survival for sudden
cardiac arrest. Partnered with local, state and regional health agency
representatives to implement community health strategies; Member of AHA
Regional Acute Care Team to develop strategic plans. Heartsaver AED-trained
and certified.

Jun 1999-Jun 2000 **Faculty Advisor**
Century University, Albuquerque, NM,
Oversaw the Health Care Management Program and provided academic
guidance to undergraduate and graduate students. Assisted with reviews and
upgrading strategies and methodologies for distance-learning education.

Jan 1997-Jun 2000 **Consultant**, Guatemala and New Mexico
Promoted team approach and advocated alternative strategies for health
promotion, education and behavioral change activities. Advised on development
health education materials for low and non-literate populations. Conducted
school needs assessment and reviewed training program and manual. Initiated
income-generating opportunity for a non-traditional education program.

Aug 1994-Aug 1997 **Senior Research Scientist**
CDC, National Center for Infectious Diseases, Division of Parasitic Diseases

(DPD), Medical Entomology Research & Training Unit/Guatemala (MERTU/G) and Universidad del Valle de Guatemala, Guatemala City
Designed and conducted quantitative and qualitative community-based and laboratory research studies on tropical diseases (Chagas' disease, malaria, and intestinal parasitism). Conducted fieldwork in rural communities. Oversaw a multi-disciplinary pilot program for prevention, surveillance and control of Chagas' disease. Designed and implemented vector/disease information, education, and communication (IEC) materials. Principal Investigator for a study on "Gender-based approaches for community interventions for the control of Chagas' disease in Guatemala", funded by WHO/Tropical Disease Research-Social and Economic Research Program.

Dec 1992-Aug 1994

Guest Researcher and Research Associate

CDC/DPD, Atlanta, Georgia and Vanderbilt University, Department of Microbiology & Immunology, Nashville, TN
Designed and conducted longitudinal experimental studies investigating immunopathology of chronic schistosomiasis mansoni. Member of host committee for the Joint Annual Meeting of American Society of Parasitologists and the American Society of Tropical Medicine and Hygiene

Jun-Aug 1993

Visiting Scientist

René Rachou Research Center/FIOCRUZ, Belo Horizonte, Minas Gerais, Brazil,
Designed and field-tested a knowledge, attitudes and practices (KAP) questionnaire regarding schistosomiasis and water contact in a rural, endemic area of Brazil. Coordinated efforts with Brazilian counterparts and interviewing team.

May 1989–Dec 1992

Post-Doctoral Fellow (NIH-sponsored) and Research Associate

Molecular Parasitology Training Program/Tropical Disease Research, Meharry Medical College-Division of Biomedical Sciences & Vanderbilt University-Department of Microbiology & Immunology, Nashville, TN
Designed and conducted immunoparasitology research on experimental schistosomiasis mansoni. Performed laboratory procedures, data collection and analysis; Report-writing, presentations and publication of research results. Laboratory Teaching Assistant for laboratory sessions of Microbiology/Parasitology course for medical students.

1983-1985

Certified Phlebotomist

Alpha Therapeutic Corporation, Seattle, WA,
Performed venipuncture on donors for blood and plasma collection.

1980

Health Clinics and Immunization Program Volunteer

Universidad Central del Este, San Pedro de Macorís, Dominican Republic,
Participated in immunization of children campaign against DTP, polio and measles, and community health education. Provided primary care at community health clinics and a rural health clinic for Haitian fieldworkers.

1977-1978

Environmental Sanitation and Health Promoter / Peace Corps Volunteer

US Peace Corps/El Salvador,
Mapped and conducted household census in rural communities; primarily for water and sanitation projects. Provided home visits for maternal and child health, and related health issues. Conducted community trainings.

Fellowships and Awards

2009-2010 Fellow: First Year Technology Fellows Experience (FYTFE) Program. University of Alaska Anchorage, Information Technology Services.
2005 5-year U.S. Government Service Award,
2001-2002 Centers for Disease Control and Prevention Annual Awards for Excellent and Outstanding Performance
1989-1992 Fellow: NIH-sponsored Post-Doctoral Fellowship-Molecular Parasitology Training Program, Meharry Medical College and Vanderbilt University, Nashville, TN,
Jan- Jun 1988 US Public Health Service Traineeship-Tulane University-SPH&TM
Aug-Dec 1987 US Public Health Service Traineeship-Tulane University- SPH&TM

Teaching Experience

Courses:

UAA, Department of Health Sciences-Master of Public Health Program (Distance-delivered through Blackboard)
HS A690 Introduction to Global Health (3 credits)
HS A697 Independent Study: Health and Development in Mongolia (3-credits)
HS A630 Public Health Emergencies and Disasters (3 credits)
HS A610 Environmental and Occupational Health (3 credits)
HS A624 Issues of Circumpolar Health (3 credits) (Co-taught with R. Johnson)
HS A626 Principles of Epidemiology (3 credits) (Co-taught with B. Buchan)

Lectures:

Universidad del Valle de Guatemala, Guatemala City, Guatemala (Undergraduate Students)
1996 Ecology of Chagas' Disease
1996 Tropical Diseases: Schistosomiasis
1996 Tropical Diseases: Chagas' Disease
1990-1991 Teaching Assistant-Microbiology/Parasitology lab for medical students, Vanderbilt University-Medical School, Nashville, TN.

Recent Funded Research and Projects

Jan-Jun 2009 Descriptive Study on Human *Trichinella* Infections in Alaska (1980-2008). Principal Investigator. University of Alaska Anchorage Office of Academic Affairs, Faculty Development Grant. Awarded ~\$3100.
Jan-Sep 2009 HIV Prevention for Men Who Have Sex with Men (MSM) Population in Rural Alaska. Principal Investigator/ Contractor (Co-Investigator: Dr. Jenny Miller). State of Alaska Department of Health and Social Services-Department of Public Health. Awarded \$20,000.
1996 Gender-Based Approaches for Community Interventions for the Control of Chagas' Disease in Guatemala. Principal Investigator. WHO/Tropical Disease Research-Social and Economic Research Program. Awarded \$5000.

Professional Affiliations & Service

2007-present American Public Health Association, Member
2008-present Alaska Public Health Association, Member
2008-present American Center for Mongolian Studies, Member and UAA DHS Representative (2009-present)

2007-present Global Health Council, Member
2008-present Alaska State Health Impact Assessment (HIA) Working Group. Member.
2008-present University of Alaska Anchorage (UAA):
College of Health and Social Welfare (CHSW): Diversity Committee. Member
2008-present Department of Health Sciences (DHS)-Seminar Series Committee. Co-Chair
2008-present DHS Assessment Committee. Chair (2008-09); Co-Chair (2009-present).
2008-present DHS Workforce Development Committee. Chair (2008-09);Co-Chair (2009-present).
2008-present DHS Admissions Committee. Member.
2008-2009 DHS Marketing Committee. Member
2008-2009 DHS Diversity Committee. Member

Past Affiliations:

CORE Group, Organization Representative; Social and Behavior Change Working Group
Watsonian Society (CDC), Member
The American Society of Tropical Medicine and Hygiene, Member
American Society of Parasitologists, Member
Royal Society of Tropical Medicine and Hygiene, Member
World Medical Association, Member

Peer-Reviewed Publications

Greer GJ, **Nix NA**, Cordón-Rosales C, Hernández B, MacVean CM and Powell MR. Seroprevalence of *Trypanosoma cruzi* infection in three rural communities in Guatemala. Rev Panam Salud Publica 1999. Aug; 6 (2): 110-6.

Adewusi OI, **Nix NA**, Lu X, Colley DG and Secor WE. Tumor Necrosis Factor-alpha, collagen deposition and morbidity in experimental chronic schistosomiasis. Exp Parasit 1996. 84:115-123.

Eloi Santos S, **Nix NA**, Gazzinelli G, Correa-Oliveira R and Colley DG. Neonatal exposure to soluble egg antigen-specific antibodies leads to prolonged survival of mice subsequently infected with *Schistosoma mansoni*. (Submitted).

Bosshardt SC, **Nix NA** and Colley DG. Early development and progression of lymphocyte-stimulatory cross-reactive idiotypes expressed on antibodies to soluble egg antigens during *Schistosoma mansoni* infections of mice. Eur J Immunol 1996. 26: 272-275.

Henderson GS, **Nix NA**, Montesano MA, Gold D, Freeman, Jr. GL, McCurley TL and Colley DG. Two distinct pathological syndromes in male CBA/J inbred mice with chronic *Schistosoma mansoni* infections. Am J Pathol 1993. 142(3): 1-12.

Colley DG and **Nix NA**. Do schistosomes exploit the host pro-inflammatory cytokine TNF-alpha for their own survival? Parasitology Today 1992. 8(11): 355-6.

Other Publications

Nix NA. Differential pathophysiology in chronic murine schistosomiasis. Tropical Diseases: Meharry Medical College's Training Program Newsletter, Spring 1991.

Nix NA. Idiotypic Differences in the immunopathogenesis of murine schistosomiasis. Tropical Diseases: Meharry Medical College's Training Program Newsletter, Fall 1989.

Abstracts and Presentations

Nix NA and Anderson BD. Prevalence and geographic distribution of human *Trichinella* infection in Alaska from 1980-2008. Arctic Science (AAAS) Conference in Juneau, Alaska. September 14-16, 2009. Abstract (Accepted).

Nix N, Morales R. and Brown O. Global Partnerships: Building Innovative Approaches to Improve Public Health. Alaska Public Health Association Health Summit 2009. Anchorage, Alaska. December 7-9, 2009. Abstract (Submitted).

Morales R and **Nix N**. An Integrative Approach to Traditional Medicine: The Mongolian Model of Health Care. Alaska Public Health Association Health Summit 2009. Anchorage, Alaska. December 7-9, 2009. Abstract (Accepted).

Nix NA. Population, Health, and Environment. University of Alaska Anchorage Department of Health Sciences. February 2008. Presentation.

Remick CL, **Nix NA**, Kraft M and Seys SA. Public health investigation and response to a varicella outbreak in Uinta County, Wyoming. 37th National Immunization Conference. Chicago, Illinois. 2003.

Nix NA and Remick CL. Vaccination status of health clinic staff in Wyoming: Do we practice what we preach? 37th National Immunization Conference. Chicago, Illinois. 2003.

Nix NA, Powell MR, Greer GJ, López JR, Hernández B and Arana B. Electrocardiographic findings for *Trypanosoma cruzi*-seropositive residents in a Chagas' disease endemic region of Guatemala. 45th Annual Meeting of the American Society of Tropical Medicine and Hygiene. Baltimore, Maryland. 1996. 55(2):289, Abstract 576.

Nix NA, Hernández B*, Mendoza C, Cordon-Rosales C, Powell M, Greer GJ, Arana FE, Ramirez L and Klein RE. Estudio de conocimientos y seroprevalencia de la enfermedad de Chagas en una población rural de área endémica de Guatemala. XIV Congreso Nacional de Medicina Interna, "Prevención en Medicina Interna". Guatemala. 1996. (*presenter). First place award for research and presentation.

Nix NA, Hernández B, Mendoza C and Klein RE. Knowledge, Attitudes and Practices (KAP) survey for Chagas' disease in an endemic area of Guatemala. 44th Annual Meeting of the American Society of Tropical Medicine and Hygiene. San Antonio, Texas. 1995. 53(2):187, Abstract 303.

Powell MR, **Nix NA**, Hernández B, Arana FE, Ramírez L and Greer GJ. Prevalence of *Trypanosoma cruzi* infection in a southeastern region of Guatemala. 44th Annual Meeting of the American Society of Tropical Medicine and Hygiene. San Antonio, Texas. 1995. 53(2):214, Abstract 386.

Greer GJ and **Nix NA**. Comparison of Sodium Azide and refrigeration for preservation of Hookworm eggs for fecal thick smear examination. Annual Meeting of the American Society of Parasitologists. Pittsburgh, Pennsylvania. 1995.

Bosshardt SC, Freeman GL, **Nix NA** and Colley DG. Reduced splenocyte production of IL-10 In vitro by CBA/J mice harboring chronic *Schistosoma mansoni*-induced hypersplenomegaly syndrome. 43rd Annual Meeting of the American Society of Tropical Medicine and Hygiene. Cincinnati, Ohio. 1994.

Freeman GL, **Nix NA**, Colley TA and Colley DG. Phenotypic spleen cell differences in distinct chronic clinicopathologic syndromes in mice with schistosomiasis mansoni. Joint Annual Meetings of the American Society of Tropical Medicine and Hygiene and the American Society of Parasitologists. Atlanta, Georgia. 1993.

Colley DG, **Nix NA**, Henderson GS, Lu X, McCurley TL. Occurrence of hyper-splenomegaly syndrome (HSS) or moderate splenomegaly syndrome (MSS) in CBA/J mice with *S. mansoni* correlates with spleen phenotypes, hepatic TNF-alpha mRNA and circulating TNF- α . SRP International Conference on Schistosomiasis. Cairo, Egypt. 1993.

Nix NA, Lu X, d'Avila Reis D and Colley DG. Elevated levels of serum TNF- α and hepatic TNF-alpha mRNA correlate with a hyper-splenomegaly syndrome in murine *Schistosoma mansoni* infections. 41st Annual Meeting of the American Society Tropical Medicine and Hygiene. Seattle, Washington. 1992.

Bosshardt SC, **Nix NA** and Colley DG. Stimulatory idiotypes on anti-SEA antibodies are expressed early in murine schistosomiasis mansoni. 41st Annual Meeting of the American Society of Tropical Medicine and Hygiene. Seattle, Washington. 1992.

Colley DG, Howard MJ, **Nix NA**, Henderson GS, Lu X and McCurley TL. Elevation of granuloma formation in distinct pathologic syndromes in murine schistosomiasis by endogenous cytokine mRNA levels. 8th International Congress of Immunology. Budapest, Hungary. 1992.

Eloi Santos S, Harrell H, Bosshardt SC, **Nix NA**, Correa-Oliveira R and Colley DG. Consequences of neonatal idiotypic manipulations on subsequent schistosome infections in male and female CBA/J mice. 40th Annual Meeting of the American Society of Tropical Medicine and Hygiene. Boston, Massachusetts. 1991.

Eloi Santos S, Bosshardt SC, **Nix NA**, Correa-Oliveira R and Colley DG. Different neonatal idiotypic manipulations lead to either early death or chronicity on subsequent infection with *Schistosoma mansoni*. U.S.-Japan Joint Conference on Parasitic Diseases. Birmingham, Alabama. 1991.

Nix NA, Henderson GS, Montesano MA, Gold D, Freeman GL and Colley DG. Clinical differences exist in an inbred mouse model of chronic schistosomiasis mansoni and correlate with anti-SEA (Soluble Egg Antigen) idiotypic differences. FASEB. New Orleans, Louisiana. 1990. 4(7):A2222.