

# Curriculum Vitae

**Diana M. Stone**  
**Professor**  
**School of Veterinary Medicine**  
**St. George's University**  
**St. George's, Grenada, West Indies**  
**Diplomate ACVPM**

**January, 2009**

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## **Contact Information:**

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## **Education:**

BS Washington State University; Pullman, Washington, Zoology, 1968  
MPH University of California; Berkeley, California, 1972  
DVM University of California; Davis, California, 1981  
PhD Washington State University; Department of Veterinary Microbiology and Pathology, College of Veterinary Medicine, Pullman, Washington, 1990

## **Board Certification**

American College of Veterinary Preventive Medicine, 1993

## **Professional Experience:**

**Professor and Coordinator of the DVM/MPH program**, St. George's University, School of Veterinary Medicine, Department of Paraclinical Studies, St. George's, Grenada, West Indies, January, 2006 to present.

**Adjunct Professor**, Department of Public Health and Preventive Medicine, School of Medicine, St. George's University, Grenada, West Indies, 2006-present.

**Visiting Professor** (sabbatical), St. George's University, School of Veterinary Medicine, Department of Paraclinical Studies, St. George's, Grenada, West Indies, January-December, 2004.

**Associate Professor**, Department of Veterinary Microbiology and Pathology,

Washington State University, Pullman, Washington, 1997-2006

**Assistant Professor**, Department of Veterinary Microbiology and Pathology, Washington State University, Pullman, Washington, 1990-1997.

**Visiting Assistant Professor**, Biological Science Department. University of Idaho, Moscow, Idaho, January, 1990 - June, 1990.

**Post DVM Teaching Assistant** and PhD graduate student College of Veterinary Medicine, Department of Veterinary Microbiology and Pathology, Washington State University, Pullman, Washington, Fall, 1984 - Spring, 1990.

**Veterinary Associate**, Thornhill Pet Hospital, Oakland, California, 1981-1984.

**Research Assistant:** College of Veterinary Medicine, University of California, Davis, California, Summers, 1978-1980.

**Health Education Consultant** on a study funded by the U.S. Department of Health, Education and Welfare to evaluate health services to teenagers in the United States. Private consulting firm of Urban and Rural Systems Analysis, San Francisco, California, 1975-1977.

**Public Health Educator:** Project director on a California State Department of Health contract to provide training in family planning counseling for Northern California County public health and social service personnel. Planned Parenthood. Oakland/San Francisco, California, 1972-1974.

**Peace Corps Volunteer:** Instructor in biology at a teacher training college and outreach worker for rural health projects, Mahasarakam and Bangkok, Thailand, 1968-1970.

### **Academic Honors:**

Phi Beta Kappa, Washington State University, 1968.

Phi Zeta, University of California-Davis, College of Veterinary Medicine, 1980

- Iota chapter, Washington State University, 1991-2006.
- Alpha Delta chapter, St. George's University, 2006-present.

### **Professional Associations:**

American Veterinary Medical Association.

The National Association of State Public Health Veterinarians

Association of Teachers of Veterinary Public Health and Preventive Medicine

### **Administrative Experience**

Coordinator of the dual degree DVM/MPH program at St. George's University (SGU). 2006-present. This is a cooperative program through the Department of Public Health and Preventive Medicine in the School of Medicine and the School of Veterinary Medicine. SGU has applied for Council on Education for Public Health (CEPH) accreditation of the MPH program. We are currently preparing our "Self Study" in preparation for the official CEPH site visit. As the DVM/MPH program coordinator I actively participate in the preparations for CEPH accreditation.

Additional administrative experience includes the administration of several research grants while at Washington State University and as the project director on a California State Department of Health contract to provide training in family planning counseling for Northern California County public health and social service personnel.

### **Publications in Refereed Journals:**

Cappon E, Caldwell J, Gittens-St.Hilaire M, Amuleru-Marshall O, Russell HL, Sharma RN, **Stone DM**. Seroprevalence of *Leptospira* in dogs in Grenada, West Indies. Submitted to the West Indian Veterinary Journal, May, 2008.

Keenan L, Chikweto A, Sharma RN, **Stone DM**. Seroprevalence of Hantavirus in *Rattus norvegicus* in Grenada, West Indies. Submitted to the West Indian Veterinary Journal, May, 2008.

Keenan J, Sharma R, Dicker R, Rayner J, **Stone D**. Seroprevalence of *Leptospira* in *Rattus norvegicus* in Grenada, West Indies. Submitted to the West Indian Medical Journal, April, 2008.

Mofya S, Sharma RN, **Stone D**, Hariharan H, Doherty D, Baffa A, Shakari J, Pensick A. Seroepidemiology of feline leukaemia and feline immunodeficiency virus infections in domestic and feral cats in Grenada. West Indian Veterinary Journal 8 (1) 18-22, 2008.

Dubey JP, **Stone D**, Kwok OCH, Sharma RN. Toxoplasma gondii and Neospora caninum antibodies in dogs from Grenada, West Indies. Journal of Parasitology, 94(3):107-108, 2008.

Mealey RH, **Stone DM**, Hines MT, Alperin DC, Littke MH, Leib SR, Leach SE, Hines SA. Experimental Rhodococcus equi and equine infectious anemia virus DNA vaccination in adult and neonatal horses: Effect of IL-12, dose, and route. Vaccine. 25(43):7582-7597, 2007.

Kohler AK, **Stone DM**, Hines MT, Byrne BA, Alperin DA, Norton LK, Hines SA. Rhodococcus equi secreted antigens are immunogenic and stimulate a Type 1 response in the lungs of protected horses. Infection and Immunity, 71(11): 6329-37, 2003.

Hamilton VT, **Stone DM**, Cantor G. Translocation of the B cell receptor to lipid rafts is inhibited in B cells from BLV-infected, persistent lymphocytosis cattle. Virology. 2003 Oct 10;315(1):135-47.

Basu I, Ferens WA, **Stone DM**, O'Brien AD, Hovde CJ. Antiviral activity of shiga toxin against bovine leukemia virus requires enzymatic activity and is associated with increased permeability of the target cells. *Infection and Immunity* 71:327-334, 2003

Hines SA, **Stone DM**, Hines MT, Alperin DC, Norton L, Davis WC, TC McGuire. Clearance of virulent, but not avirulent *Rhodococcus equi* from the lungs of adult horses is associated with intracytoplasmic IFN-gamma production by CD4+ and CD8+ T lymphocytes. *Clinical and Diagnostic Laboratory Immunology*. 2003 March 10(2):208-215.

Hamilton VT, **Stone DM**, Pritchard SM, Cantor GH. Bovine leukemia virus gp30 transmembrane protein is not tyrosine phosphorylated: Examining potential interactions with host tyrosine-mediated signaling. *Virus Research* 90:155-169, 2002.

IS Eriks, **DM Stone**, JJ LeJeune. Integration of a food safety laboratory into the core DVM curriculum. Accepted in *Journal of Veterinary Medical Education*, 2000, published in 2001.

**Stone DM**, Norton LK, Chambers JC, Meek WJ. CD4 T-lymphocyte activation in BLV-induced persistent B lymphocytosis in cattle. *Clinical Immunology*, 96:280-288, 2000.

**Stone DM**, Norton LK, Davis WC. Spontaneously proliferating lymphocytes from BLV-infected lymphocytotic cattle are not the virus-expressing lymphocytes, as these cells are delayed in G0/G1 of the cell cycle and spared from apoptosis. *Journal of General Virology*, 81:971-981, 2000.

Trueblood ES, Brown WC, Palmer GH, Davis WC, **Stone DM**, McElwain TF. B-lymphocyte proliferation during BLV-induced persistent lymphocytosis is enhanced by T-lymphocyte derived IL-2. *Journal of Virology*. 72:3169-3177, 1998.

**Stone DM**, Norton LK, Davis WC. Modulation of bovine leukemia virus-associated spontaneous lymphocyte proliferation by monoclonal antibodies to lymphocyte surface molecules. *Clinical Immunology and Immunopathology*; 83:1156-164, 1997.

**Stone DM**, Norton LK, Magnuson NS, Davis WC. Elevated *pim-1* and *c-myc* proto-oncogene induction in B lymphocytes from BLV infected cows with persistent B lymphocytosis. *Leukemia*; 10:1629-1638, 1996.

Cantor GH, **Stone DM**, McElwain TF, Palmer GH. Comparison of the antiviral efficacy of ribozymes and antisense directed against bovine leukemia virus *rex/tax*. *Antisense & Nucleic Acid Drug Development* 6:301-304, 1996.

**Stone DM**, Hof AJ, Davis WC. Up-regulation of IL-2 receptor  $\alpha$  and MHC class II expression on lymphocyte subpopulations from bovine leukemia virus infected lymphocytotic cows. *Veterinary Immunology and Immunopathology* 48:65-76, 1995.

Wingett D, **Stone DM**, Davis WC, Magnuson, NS. Expression of the *pim-1* proto-oncogene: Differential inducibility between T cells and B cells. *Cellular Immunology* 162:123-130, 1995.

**Stone DM**, McElwain TF, Davis WC. Enhanced B lymphocyte expression of IL-2R $\alpha$  associated with T lymphocytosis in BLV infected persistently lymphocytotic cows. *Leukemia* 8:1057-1061, 1994.

**Stone DM**, Stephens KE. Bromodeoxyuridine induces chromosomal fragile sites in the canine genome. *American Journal of Medical Genetics* 46:198-202, 1993.

**Stone DM**, Stephens KE, Doles J. Folate sensitive and aphidicolin-inducible fragile sites are expressed in the genome of the domestic cat. *Cancer Genetics and Cytogenetics* 65:130-134, 1993.

Williams JR, Evermann JF, Beede RF, Scott ES, Dilbeck PM, Whetstone CA, **Stone DM**: Association of bovine herpesvirus type I in a llama with bronchopneumonia. *Journal of Veterinary Diagnostic Investigation* 3:258-260, 1991.

**Stone DM**, Mickelsen WD, Jacky PB, Prieur DJ: A novel Robertsonian translocation in a family of Walker Hounds. *Genome* 34:677-680, 1991.

**Stone DM**, Jacky PB, Prieur DJ: Cytogenetic evaluation of four canine mast cell tumors. *Cancer Genetics and Cytogenetics* 53:105-112, 1991.

**Stone DM**, Jacky PB, Prieur DJ: Chromosomal fragile site expression in dogs. II. Expression in Boxer dogs with mast cell tumors. *American Journal of Medical Genetics* 40:223-229, 1991.

**Stone DM**, Jacky PB, Hancock DD, Prieur DJ: Chromosomal fragile site expression in dogs. I. Breed specific differences. *American Journal of Medical Genetics* 40:214-222, 1991.

**Stone DM**, Jacky PB, Prieur DJ: The Giemsa banding pattern of canine chromosomes. *Genome* 34:407-412, 1991.

Papageorges M, Sande RD, Menard M, **Stone DM**: Osteosarcoma mimicking a bone cyst in a dog. *Canadian Veterinary Journal* 30:511-513, 1989.

Smith CA, **Stone DM**, Prieur DJ: Spontaneous profuse superovulation in association with ectopic fetuses in a rabbit. *Laboratory Animal Science* 39:74-77, 1989.

### **Abstracts:**

Keenan J, Sharma R, Dicker R, Rayner J, **Stone D**. Seroprevalence of *Leptospira* in *Rattus norvegicus* in Grenada, West Indies. Submitted to the Caribbean Health Research Council 53<sup>rd</sup> Annual Scientific Meeting, April 24-26, 2008. Poster presentation at this conference.

**Stone DM**, Dicker RC. Opportunities and Challenges of a DVM/MPH Dual Degree Program in the Caribbean. Symposium "Partnerships For Preparedness", sponsored by The Association of Schools of Public Health and The Association of American Veterinary Medical Colleges. Atlanta, Georgia, April 22-24, 2007.

Cappon E, Caldwell J, Amuleru-Marshall O, Russell HL, **Stone DM**, Sharma RN. Seroprevalence of Canine Leptospiral Infection in Grenada. 24<sup>th</sup> Biennial Caribbean Veterinary Medical Association Conference, November 8-10, 2006.

SA Hines, **DM Stone**, MT Hines, L Norton, TC McGuire. Detection of interferon-gamma producing equine T lymphocytes by flow cytometry: Pulmonary responses to *Rhodococcus equi* challenge. Havemeyer Foundation, Equine Immunology Workshop, Santa Fe, New Mexico, January 24-28, 2001.

**Stone DM**, Norton LK, Davis WC. Bovine leukemia virus expression and modulation of B lymphocyte cell cycle progression and apoptosis. Inland Northwest Cancer Conference, Research & Clinical Practice: Bridging the Gap. November 5-6, 1999.

Trueblood ES, **Stone DM**, Brown W, McElwain TF. Altered cytokine expression during BLV-induced persistent lymphocytosis. One hundredth Annual Meeting United States Animal Health Association and Thirty-ninth Annual Conference of American Association of Veterinary Laboratory Diagnosticians. October, 1996

Trueblood ES, Palmer GH, Brown WC, Cantor GH, **Stone DM**, McElwain TF. The peripheral blood mononuclear cell cytokine mRNA expression profile during different stages of bovine leukemia virus infection. The 7th workshop on the pathogenesis of animal retroviruses, December, 1995.

**Stone DM**, Norton LK, Wyatt CR, Davis WC. CD4 T lymphocytes affect the proliferation of CD5 B lymphocytes from BLV infected persistently lymphocytotic cows. The 4th International Veterinary Immunology Symposium, July, 1995.

**Stone DM**, Norton LK, Magnuson NS, Davis WC. Elevated *pim-1* and *c-myc* expression in bovine leukemia virus induced CD5 B lymphocytosis. Abstract, 9th International Congress of Immunology, July, 1995

**Stone DM**, Jacky PB, Mickelsen WD, Prieur DJ: A novel Robertsonian translocation in a family of dogs. *Cytogenetics and Cell Genetics* 56:223, 1991.

**Stone DM**, Jacky PB, Prieur DJ. Chromosomal fragile site expression in dogs. *Proceedings of The Society for Experimental Biology and Medicine* 196:114, 1991.

Williams JR, Evermann JF, Beede RF, Scott ES, Dilbeck PM, Whetstone CA, **Stone DM**. Association of bovine herpesvirus type I in a llama with bronchopneumonia: Potential ramifications of interspecies transmission. *American Association of Veterinary Laboratory Diagnosticians* 30:1990.

**Stone DM**, Jacky PB, Prieur DJ: Three fragile sites on the canine X chromosome are homologous to recognized common fragile sites on the human X chromosome. *American Journal of Human Genetics* 47 (Supplement):A98, 1990.

**Stone DM**, Prieur DJ, Jacky PB: Folate-sensitive chromosomal fragile sites in dogs: Potential animal model for correlating heritable fragile sites and a predisposition to malignancy. *American Journal of Human Genetics* 43:A34, 1988.

Ahern-Rindell A, **Stone DM**, Parish SM, Leathers CW, Prieur DJ: A neuronal lysosomal storage disease in sheep associated with a deficiency of beta-galactosidase. *Federation Proceedings* 44:744, 1985.

### **Other Professional Publications:**

Evermann JF, LS Garcia and **DM. Stone**. Laboratory Diagnosis of Zoonotic Infections: Viral, Rickettsial, and Parasitic Agents Obtained from Food Animals and Wildlife Infections. *CUMITEX 32 (Cumulative Techniques and Procedures in Clinical Microbiology)*, an American Society of Microbiology publication. May, 1999.

Evermann JF, **DM Stone**. Laboratory Diagnosis of Zoonotic Infections of Livestock and Wildlife: Viral, Rickettsial, and Bacterial Infections. Responsible for chapters on rabies, vesicular stomatitis virus, hantavirus, parapoxviruses, and Q feve. *CUMITEX (Cumulative Techniques and Procedures in Clinical Microbiology)*, an American Society of Microbiology publication. 1998.

**Stone DM**, Park YH. Food Safety in the United States. *Korean Journal of Veterinary Public Health*, 21:175-180, 1997.

**Stone DM**. Veterinary Aspects of Food Hygiene and HACCP in the United States. *Proceedings of the 1997 Spring Symposium at Seoul National University, College of Veterinary Medicine, Seoul, Korea.* pp 25-38, 1997.

**Stone DM**, Park HY. Food Safety in the United States. Proceedings of the Korea – USA Symposium on Control of Bacterial Diseases for Food Safety, Seoul, Korea. pp 26-41, 1997.

**Stone DM**. Major Foodborne Pathogens in Zoonotic Diseases. Proceedings of the 10<sup>th</sup> International Symposium of the Korean Society of Food Hygiene and Safety, Seoul, Korea. pp 59-67, 1997.

Gill DM, **Stone DM**. The veterinarian's role in the AIDS crisis. Journal of the American Veterinary Medical Association 201:1683-1684, 1992.

## **Research Support:**

### **Funding as Principal-Investigator:**

SGU Small Research Grant Initiative: "The Seroprevalence of Leptospiral infection in dogs in Grenada." 2006-2007. \$1000 US direct costs. I was the main advisor and mentor to the DVM students Jill Caldwell and Emily Cappon who worked on this project.

Grayson-Jockey Club Research Foundation: "IL12 as an adjuvant in a DNA vaccine for rhodococcal pneumonia". \$91,063. 2 years starting 2003. One year extension obtained to extend to March, 2006. Steve Hines, Co-Principal Investigator.

Animal Health Formula Funds (intramural competition): "Fetal immunization against *Rhodococcus equi*". \$20,000. One year starting June, 2005. Steve Hines, Co-Principal Investigator.

Animal Health Formula Funds (intramural competition): "Plasmid IL-12 as a DNA vaccine adjuvant for induction of Th1 immune responses" Funded for \$20,000, July 2002 – June 2003.

Animal Health Formula Funds (intramural competition): "The effect of secreted BLV Tax on bovine CD5 B lymphocytes". Funded for \$20,000. 7/00 – 6/01.

Animal Health Formula Funds (intramural competition): "The Role of BLV Tax in CD4-T-lymphocyte Stimulation". \$3,200. June, 1998 to June 1999.

USDA New Investigator Award. Principal Investigator. September, 1995-August, 1998. Project: "Role of T lymphocytes in bovine leukemia virus B lymphocytosis. Funded for \$100,000 for two years.

Animal Health Formula Funds (intramural competition): July, 1995 - June, 1996. Project: "Generation of bovine leukemia virus antigen-specific CD4 T cell lines". Funded for \$11,200.

Animal Health Formula Funds (intramural competition): The role of CD4 T lymphocytes in bovine leukemia virus induced B lymphocytosis. July 1, 1994- June 30, 1995. \$12,000 direct cost.

Animal Health Formula Funds (intramural competition). Bovine leukemia virus: Interleukin-2 signaling in B lymphocyte proliferation in lymphocytotic cows. \$12,000 direct costs. July 1, 1993 - June 30, 1994.

Animal Health Formula Funds (intramural competition). Bovine leukemia virus deregulation of a lymphoid-restricted proto-oncogene. \$13,500. July 1, 1992 - June 30, 1993.

Washington State University Research Grant-in-Aid. Genetic alterations in bovine leukemia virus infected proliferating lymphocytes. July 1, 1992 - June 30, 1993. \$12,000 direct costs

Dorothy Shea Brink Memorial Fund (Intramural competition). Characterization of feline chromosomal fragile sites and integration sites of feline leukemia virus. \$6,500. July 1, 1991 - June 30, 1992.

Biomedical Research Support Grant funded through Washington State University Graduate School. Age-associated chromosome fragility and fragile site expression in a breed of dogs at increased risk of cancer. September 1, 1990 - March 31, 1991. \$3,300. Funded through the Washington State University Graduate School.

American Cancer Society Institutional Award through Washington State University. Canine chromosomal fragile sites and breed associated neoplasms. \$3,000. July 1, 1988 - June 30, 1989.

#### **Funding as Co-Investigator:**

Morris Animal Foundation. "Targets of protective immune responses in equine rhodococcal pneumonia. \$138,687. 3 years starting in 2001. Steve Hines Principal Investigator

Morris Animal Foundation. David J. Prieur, principal investigator. The role of chromosomal fragile sites in cancer in dogs. Funded for \$10,300. July, 1987 - June, 1989.

NIH (P45 Grant). Animal models for comparative medical research. Competitive Renewal. David J. Prieur, principal investigator. Funded for \$160,000. July 1, 1990 - June 30, 1991.

#### **Funding for Training as Faculty Mentor**

National Institutes of Health, National Center for Research Resources Short-Term Research Training: Students in Health Professional Schools. Grant number T35 RR07049. David Prieur, program director. \$126,984 direct costs. February, 1996 – January, 2001.

USDA Training Grant, Food and Agricultural Sciences National Needs Graduate Fellowships Program. National Need Area: Biotechnology – Animal. Guy Palmer, program director. \$162,000 total costs. September, 1994 – August, 1999.

National Institutes of Health, National Heart, Lung, and Blood Institute Short-Term Training Grant for Ethnic Minority Students. David Prieur, program director. September 30, 1998.

National Heart, Lung, and Blood Institute Short-Term Summer Research Training Program for Ethnic Minority Students. David Prieur, program director. \$100,440 total costs. September, 1991 – September 1997.

National Institutes of Health, National Center for Research Resources, Minority High School Student Research Apprentice Program. David Prieur, program director. \$16,000 direct costs. April, 1995 - February, 1996.

National Institutes of Health, National Center for Research Resources Short-Term Research Training: Students in Health Professional Schools. David J. Prieur, program director. \$134,946 direct costs. September, 1990 - September, 1995.

National Institutes of Health, National Center for Research Resources, Minority High School Student Research Apprentice Program. David J. Prieur, program director. \$25,000 direct costs. March, 1992 - February, 1993.

**Other Research Grant Activities:**

Consultant on a National Institutes of Health Small Business Innovation Research Program (SBIR) proposal submitted by Berkeley Antibody Company. Project: Species specific antisera and positive and negative control of zoonotic diseases. September, 1993 - February, 1994. \$50,500. Funded for species specific antisera to Lyme disease agent.

### **Graduate Student Committees at St. George's University**

Chair (2006-2007): John Keenan, MSPH, "Seroprevalence of *Leptospira* in *Rattus norvegicus* in Grenada, West Indies".

Chair Advisory Committee (2006-2007) for research project for Lisa Rivera, DVM/MPH student, "Hantavirus in *Rattus norvegicus*, Grenada, West Indies: Seroprevalence." Manuscript submitted on this work, May, 2008.

Chair Advisory Committee (2006-2007) for independent study research project for DVM/MPH student Jill Caldwell and DVM student Emily Cappon, "The seroprevalence of Leptospiral infection in dogs in Grenada." Manuscript submitted on this work, May, 2008.

Committee Member (2007-2008): Satesh Bidaisee, MSPH, Knowledge, attitudes and perceptions of non-medically trained, adult Grenadian citizens towards specific infectious diseases."

Committee Member (2006-2008): Camille-marie Coomansigh, MSc. "Helminth parasites in dogs in Grenada".

Committee Member (2007-2008): Saul Mofya, MSc. "Seroepidemiological study of Feline Leukemia Virus and Feline Immunodeficiency Virus infections in domestic and feral cats in Grenada."

### **Graduate Student Committees at Washington State University:**

While at WSU I was a committee member for 9 PhD candidates and was chair of one of these committees. I was co-chair for one Masters of Veterinary Science candidate. All candidates successfully completed their programs.

### **Review Groups:**

Reviewer for Food Safety and Quality Assurance. Foods of Animal Origin. WT Hubbert, HV Hagstad, Iowa State University Press, Ames, Iowa, 1991.

Ad hoc reviewer, Cancer Genetics and Cytogenetics, 1991-92

Ad hoc reviewer, Cytogenetics and Cell Genetics, 1993.

Ad hoc reviewer, USDA National Research Initiative Competitive Grants Program, 1993-present.

Ad hoc reviewer for the journal *Vaccine*, 2002.

Grant review committee member for the American Cancer Society Grant Program at Washington State University, 1993-present. Appointed as a permanent member, August, 1994 to 2001.

### **Selected Presentations and Invited Addresses:**

"Bacterial and Viral Zoonoses in Grenada". Presented at the SGU SVM sponsored Zoonoses Seminar for Grenadians working in relevant fields. March 27, 2007.

"St. George's University School of Veterinary Medicine in Grenada and Hurricane Ivan". Presentation to the staff of the WSU College of Veterinary Medicine at the monthly "Staff Appreciation" luncheon. February 8, 2005.

"Bovine Spongiform Encephalopathy"; "West Nile Virus": Talks to School of Medicine and School of Veterinary Medicine faculty and students on during my sabbatical at St. George's University, 2004.

"West Nile Virus" talk to the local (Moscow, Idaho) Audubon Society on West Nile Virus, Feb. 19, 2003.

"Zoonoses of Interest to Human Medicine" for continuing education for medical doctors at St. Mary Medical Center, Walla Walla, WA. January, 2000.

"Emerging Zoonoses" and "Zoonotic Risks to Immunosuppressed People". SAVMA Symposium National Meeting at WSU, March 19, 1999.

"Pet-associated risks with zoonotic diseases". Presented March 19, 1999 at the Student American Veterinary Medical Symposium (SAVMA Symposium), national annual meeting, Pullman, Washington.

"Zoonotic risks for animal control personnel" for the Spokane County Animal Control Office. Spokane, WA. March, 1998.

"Zoonoses and the small animal practitioner" for the Southwest Washington Veterinary Medical Association. Vancouver, WA, May 21, 1998.

"Zoonoses and other occupational Hazards" at the Annual Conference for Veterinarians and Veterinary Technicians. Veterinary Technician Program. Washington State University. Pullman, Washington. April 3, 1998.

"Immune Dysregulation in bovine Leukemia Virus Infection in Cattle". Presented April 27, 1998 at the Diagnostic Medicine Pathobiology Spring Semester Seminar Series, College of Veterinary Medicine, Kansas State University, Manhattan, Kansas.

"Bovine Leukemia Virus: The role of CD4 T-lymphocytes in BLV-induced persistent lymphocytosis". College of Veterinary Medicine at Kansas State University, April 27, 1998.

"Major Foodborne Pathogens in Zoonotic Diseases." Presented May 23, 1997 at the 10<sup>th</sup> International Symposium of the Korean Society of Food Hygiene and Safety, Seoul, Korea.

"The HACCP Approach to Safety of Foods of Animal Origin." Presented May 22, 1997 at Chonnam National University, College of Veterinary Medicine, Kwangju, Korea.

"Food Safety in the United States." Presented May 21, 1997 at the Korea – USA Symposium on Control of Bacterial Diseases for Food Safety, Seoul, Korea.

"Veterinary Aspects of Food Hygiene and HACCP in the United States." Presented May 20, 1997 at the 1997 Spring Symposium at Seoul National University, College of Veterinary Medicine, Seoul, Korea.

"Zoonotic Risks to Pregnant Women" at Annual Conference Public Practice Program sponsored by the College of Veterinary Medicine, Washington State University, Pullman, WA, April 12-13, 1996.

"Public Health Instruction in the DVM curriculum". Program in honor of Dr. David Anderson, Dean of the College of Veterinary Medicine at the University of Georgia. Dean Anderson was in Pullman to receive the WSU Alumni Achievement Award. October 6, 1995.

"Elevated *pim-1* and *c-myc* expression in bovine leukemia virus induced CD5 B lymphocytosis." 9th International Congress of Immunology, San Francisco, July, 1995.

"Bovine leukemia virus induced disease in cattle." Presented May 8, 1995 at Walla Walla College, Department of Biological Sciences Seminar Series.

"BLV-induced CD5 B lymphocytosis in cattle." Graduate Seminar Series sponsored by the Department of Microbiology, Molecular Biology, and Biochemistry at the University of Idaho. Fall, 1994.

"West Nile Virus". Three separate talks to community groups and other educational institutions: a class at the University of Idaho, the Palouse chapter of the Audubon Society, and the Master Gardener's organization of Moscow, Idaho. 2003.

"Foodborne diseases; Campylobacteriosis" Invited presentation at the Food Safety: Farm to Table conference sponsored by the Department of Food Science and Human Nutrition, Washington State University, October 1992.

"Animal reservoirs for human Campylobacteriosis" Invited presentation at the Washington State Department of Health Annual Infectious Disease Conference, October, 1991, Yakima, Washington.

"Animals as Sentinels" at the Annual Conference for Veterinarians Continuing Education Series on Environmental Health. April 6, 1991, Pullman, Washington.

"DNA fingerprinting in llamas." Invited presentation at the International Llama Association Continuing Education Veterinary Clinic, Spokane, WA, June, 1991.

"Three fragile sites on the canine X chromosome are homologous to recognized common fragile sites on the human X chromosome." American Society of Human Genetics Annual Meeting, Cincinnati, Ohio, October, 1990.

“Canine chromosomal fragile sites and cancer risk in Boxer dogs.” Invited presentation at Morris Animal Foundation annual meeting. June, 1989, Seattle, Washington.

“Canine chromosomal fragile sites.” Invited seminar at Battelle Pacific Northwest Laboratories, Richland, Washington, March, 1988.

## **TEACHING**

### **Recognition for teaching:**

**National award:** Co-recipient of the \$25,000 Merck AgVet National Award for Creativity in Teaching, 1995: Title: "The Diagnostic Challenges." WSU's entry and the national award winner in competition with all veterinary schools in North America.

**WSU CVM Award:** 2002 Jerry Newbrey Teaching Scholar. Given to faculty who have demonstrated excellence in teaching during the first three years of the veterinary curriculum as determined by standardized student evaluations.

### **DVM Teaching**

#### **St. George's University, Grenada, West Indies:**

##### **Course Director**

2006-present: Veterinary Public Health. Core course to DVM students

2006-present: Introduction to Veterinary Public Health. Required course for dual degree DVM/MPH students.

2007-present: Applied Veterinary Public Health. Required course for dual degree DVM/MPH students.

2007-present: Veterinary Immunology. Core course to DVM students

##### **Sabbatical at SGU, 2004**

Veterinary Public Health course director

Veterinary Systemic Pathology. Urinary system and respiratory systems

Veterinary General Pathology: Growth disturbances and neoplasia.

School of Medicine, Department of Public Health. Co-instructor in MPH courses:

- Emerging Infectious Diseases.
- Epidemiology in Public Health Practice Settings (summer session). I developed and was responsible for 90% of the course. “On-farm food safety” and “Emergence of antibiotic-resistant human pathogens associated with animals”. Within the scope of this course I organized three field trips on the island of Grenada.

### **Washington State University**

**Course Director**

1990-2005 (VM 543) Veterinary Medicine and Human Health.

**Co-instructor**

While at WSU I contributed to several DVM courses. These included the following:

Systemic Pathology course: lectures and labs on urinary and respiratory system

Elective senior block on theriogenology: Diagnostic cytogenetics

Senior block rotation, Diagnostic Pathology; gross path

Co-course director for small group Diagnostic Challenges Exercise for second year students in Veterinary Public Health and Veterinary Systemic Pathology Courses.

Veterinary Bacteriology course: Food safety lab

Elective "Case-based learning in pathology" course.

Elective "Issues in Animal Agriculture" course

Ethical dilemmas in veterinary Medicine. Part of the first year DVM orientation course

**Graduate Student Teaching at WSU:**

1992, 1994: Guest Lecturer: (GenCB 540) Cytogenetics. 2 credits. Graduate students in the Genetics and Cell Biology Program.

1993-2000: (VPA 544) Immunopathology. 3 credits. Post-DVM pathology resident/PhD graduate students. Responsible for section on B-T lymphocyte interactions and neoplastic lymphocytes.

2005: ANTH 519, "Human Resources for International Development," Invited seminar on the 2004 hurricane in Grenada: relief work and its effect on international development efforts.

**Veterinary Student Research Advising at WSU:**

While at WSU I mentored 6 veterinary students in my laboratory on research projects on Bovine Leukemia Virus and *Rhodococcus equi*

**Advisor for veterinary student senior papers at WSU:**

While at WSU was the advisor to approximately 20 veterinary students for their senior paper and presentation. Selected Topics: *The Role of Veterinarians in the AIDS Crisis; The Wolf-Dog Hybrid; The Control of Wildlife Rabies in Europe and North America; Canine Aggression Towards Children: The Veterinarian's Role in Dog Bite Prevention; Veterinary Public Health in Haiti. Zoonoses Prevention Program for the Immunocompromised Pet Owner; Lymphocytic Choriomeningitis Virus: The Forgotten Zoonosis; Hawaii Rabies Quarantine; The veterinarian's role in the uniformed services; Dog Attacks and the Law: Leeches and Maggots: Live parasites as therapy in medicine; The Feral Cat Problem.*

**Continuing Education on Teaching:**

Participant in the Symposium “Partnerships For Preparedness”, sponsored by The Association of Schools of Public Health and The Association of American Veterinary Medical Colleges. Atlanta, Georgia, April 22-24, 2007.

Participant. Newbrey Faculty Development Symposium on Effective Communication in Veterinary Medicine. Washington State University, College of Veterinary Medicine, Pullman, WA. January 5<sup>th</sup> and 6<sup>th</sup>, 2005.

Participant. Demonstration of Asymetrix Multimedia Toolbook for designing interactive exams. Conducted by Robert Bamberger of the School of Electrical Engineering and Computer Science, Washington State University, for the College of Veterinary Medicine, Washington State University, Pullman, WA, April, 1996.

Attended the SCAVMA-sponsored presentation on “Veterinary emergency preparedness: The role of veterinarians in disaster planning and relief” by Dr. Candice Jacobs of the Washington State Department of Agriculture. Pullman, WA, December 4, 1995.

Participant. Washington State University Wescott Symposium on Teaching and Learning Issues in a Novel and Unique Veterinary Medical Curriculum conducted by faculty from the College of Veterinary Medicine at Cornell University; May 12, 1995.

Participant. “Application of learning theory to teaching veterinary medical students.” Workshop sponsored by the College of Veterinary Medicine and conducted by David Irby, PhD, professor of medical education, University of Washington; April 14, 1995.

Participant. “Teaching in Clinical or Small Group Settings.” Workshop sponsored by the College of Veterinary Medicine at Washington State University and conducted by faculty from the University of Washington School of Medicine; March 23, 1995.

Participant. “Problem-Based Learning in the Veterinary Curriculum.” Two day workshop sponsored by the College of Veterinary Medicine at Washington State University, June, 1993.

Participant. “Teaching Problem Solving.” Two day workshop sponsored by the Association of Teachers of Veterinary Public Health and Preventive Medicine, University of Minnesota College of Veterinary Medicine. June, 1992.

## **SERVICE**

### **Service on Committees at St. George’s University**

Member Graduate Affairs Committee of the Department of Public Health and Preventive Medicine, School of Medicine, 2006-present.

Member: Curriculum Committee of the School of Veterinary Medicine, 2007-present

Member and treasurer: Phi Zeta, Alpha Delta chapter, 2006-present

SAVMA Faculty Advisor: 2006-present

### **Service on Committees at Washington State University**

Faculty Search Committees WSU: I was a member of nine search committees which included the search for a new Dean of the College of Veterinary Medicine and Director of the Washington Animal Disease Diagnostic Laboratory.

Chair and Member: Curriculum Committee CVM. 1998, 1999-2003. Chair, 2000, 2001, part of 2002 and 2003

Member: Association Faculty Women, Washington State University, 1990-2006.

Member: WSU Chapter of Association of Women Veterinarians. 1993-2006.

Member: Department of Veterinary Microbiology and Pathology Instructional Resources Advisory Committee. 1994-2006.

Member: Admissions Committee, WSU CVM, 1995-1999, 2005.

Member: Washington State University/University of Idaho Food Safety Joint Programming Committee. 1996-2006.

Member: Subcommittee of the Washington State University Institutional Biosafety Committee to develop guidelines for researchers who use wild rodents at WSU prior to testing for infection of the Hantavirus. 1997.

Member: WSU CVM Staff Recognition Award Committee, 1997, 1998.

Member: Distinguished Alumnus Award Committee for Washington State University. 1997-2006.

Member: Nuclear Reactor Review Committee. 1998-2001.

Member: Research Scholars Committee. 2001. Organized the fall course for Research Scholars in 2001.

Member: Institutional Animal Care and Use Committee for Washington State University. 2000-2003.

Member: Department of Veterinary Microbiology and Pathology Safety Committee, 2002, 2003.

Member: College of Veterinary Medicine Student – Faculty Council, 2003.

Member: College of Veterinary Medicine committee to develop a dual degree DVM and MPH program in collaboration with the University of Washington School of Public Health. March 2005-2006.

### **Other Selected Academic Service Activities:**

Established a Veterinary Public Practice Lecture Series within the College of Veterinary Medicine. The lecture series began in the fall of 1991. This lecture series continued for 5 years.

Coordinated the establishment of a cooperative agreement between the College of Veterinary Medicine at Washington State University and the

Virginia-Maryland Regional College of Veterinary Medicine program in Government and Corporate Veterinary Medicine (GCVM). This agreement extended the large number of externship opportunities available through the GCVM program to Washington State University fourth year DVM students. Over 30 Washington State University students participated in the externships offered through this program. The cooperative agreement continued for 5 years (1993-1998).

Coordinated the on-campus recruitment efforts at Washington State University College of Veterinary Medicine for United States Department of Agriculture (USDA) Food Safety and Inspection Service, USDA Animal and Plant Health Inspection Service Public Veterinary Practice Career Program and the United States Air Force Allied Health Recruitment for Public Health Officers.

Coordinate the yearly orientation program for Federal Accreditation of third year veterinary students. 1991-present.

Assisted in the planning for the Public Practice and Food Animal Medicine Sessions for the Annual Conference for Veterinarians. March 1992, Pullman, Washington

Coordinated the acquisition of tuberculosis skin testing through the Whitman County Health Department for College of Veterinary Medicine faculty, staff, and students who were exposed to a bull diagnosed with a mycobacterial infection, 1992.

Visited the College of Veterinary Medicine at Bari, Italy to enhance international veterinary medicine in the curriculum. October, 1998.

Participated in the signing of the Memorandum of Agreement between the Rural Development Administration of Korea and Washington State University. May 21, 1997, TEMF Hotel, Seoul, Korea.

### **Selected Community Service Activities:**

Participated in "World Food Day", celebrated in Grenada, West Indies on October 15-16, 2006 at the Trade Center. Helped to run the SGU SVM booth at the Trade Center for this event.

Faculty advisor for the "One World, One Health, One Medicine" educational outreach and vaccination clinic held in St. David's, Grenada, West Indies on November 10, 2007.

As the public health veterinarian at WSU CVM, responded to inquiries from veterinarians, animal control personnel, public school administrators, county and city health department and law enforcement personnel, lawyers, and pet owners regarding animals and human health and safety. I responded to 25-40 inquiries each year while at WSU CVM.

Represented the College of Veterinary Medicine in the development of a training program for voluntary inspection of squab in the State of Washington. Coordinated through the Washington State Department of Agriculture. 1991-1992.

Participant/presenter for "Expanding your Horizons", a workshop held at the Spokane Falls Community College for Eastern Washington area high school girls on careers in science and engineering: March 25, 1995.