

**DAWN PATRICIA WOOLEY, PhD, SM(NRCM), RBP, CBSP***Wright State University, 3640 Colonel Glenn Hwy, Dayton, OH 45431***EDUCATION**

- Ph.D. Virology; Harvard Medical School 1986-1992  
 Dissertation: *Envelope sequence variation and immune selection of simian immunodeficiency virus (SIV) in persistently infected rhesus monkeys.*
- B.S. Microbiology; Pennsylvania State University 1982-1986  
*Summa cum laude* with Honors in Molecular and Cell Biology

**RESEARCH TRAINING**

- University of Wisconsin Medical School 1992-1995  
*Postdoctoral fellow with Nobel Laureate Dr. Howard M. Temin*
- Harvard Medical School 1986-1992  
*Graduate student with Dr. Ronald C. Desrosiers*
- Pennsylvania State University 1984-1986  
*Undergraduate student with Dr. Richard J. Frisque*

**PROFESSIONAL POSITIONS**

- Associate Professor with Tenure, Wright State University, Dayton, OH 2001-present  
*Primary Appointment, Dept. of Neuroscience, Cell Biology, and Physiology*  
*Secondary Appointment, Dept. of Emergency Medicine*
- Director of the Biosafety Level 3 Lab., Wright State University, Dayton, OH 1995-present
- Assistant Professor, Wright State University, Dayton, OH 1995-2001

**PROFESSIONAL CERTIFICATIONS:**

- Certified Biosafety Professional (CBSP) no. 05-135, ABSA 2006-present
- Specialist Microbiologist in Biological Safety, NRCM, no 4896 2005-present
- Registered Biosafety Professional (RBP) no. 135, ABSA 2005-present

**PROFESSIONAL AFFILIATIONS:**

- Executive Board Member of the NIH/NIAID Region V "Great Lakes"  
 Regional Center of Excellence for Biodefense and Emerging  
 Infectious Diseases Research, *The University of Chicago* 2005-present
- Member of the Center for Retrovirus Research 1997-present  
*The Ohio State University, Columbus, OH*

**GRADUATE FACULTY APPOINTMENTS**

- Biomedical Sciences Ph.D. Program, Wright State University 1996-present
- Microbiology & Immunology M.S. Program, Wright State University 1995-present
- Anatomy & Physiology M.S. Program, Wright State University 2003-present

## RESEARCH GRANTS

### ACTIVE

- American Biological Safety Assoc/Elizabeth R. Griffin Research Foundation 2009-2011  
*“Shedding of Virus from Animals Infected with Viral Vectors”*  
 Total Project Costs \$20,000; Role: PI
- Technology Commercialization Research Challenge Grant 2006-2009  
*HIV-1 Treatment Monitoring Assay*  
 Total Project Costs \$98,000; Role: PI

### COMPLETED RESEARCH

- Defense Threat Reduction Agency/ Air Force Research Laboratories 2007-2009  
*Use of Epitope-directed Nanobodies as Passive Immunotherapeutic Agents against Yersinia pestis*; Total project costs \$1,081,000; Role: Subcontract PI
- Defense Threat Reduction Agency/Air Force Research Laboratories 2007-2008  
*Nanotechnology-based Targeted Anti-viral Therapeutics*  
 Total project costs \$720,000; Role: Subcontract PI
- National Institutes of Health, NIAID/U. Minnesota 2003-2006  
 Prime Award No. U56-AI57164; Subaward No. M6286208801  
*MWCE: Transmission/Pathogenesis of Bioterrorism Agents*  
 Total project costs \$1,000,000; Role: Subcontract PI
- Major Collaboration Research Challenge Grant 2003-2005  
*Cellular Response to Hemorrhagic Fever Virus*  
 Total project costs \$45,000; Role: PI
- National Institutes of Health, R29CA72239 1996-2002  
*Molecular Mechanisms of Retroviral Variation*  
 Total project costs \$493,439; Role: PI
- Gene Expression Laboratory/Kettering Fund 2002  
*Gene Expression Studies of HIV-1-Infected Eosinophilic Cells*  
 Total project costs \$15,000; Role: PI
- Ohio Research Challenge (PI: Wooley) 2001  
*Retroviral Variation and Mechanisms of Cellular Tropism*  
 Total project costs \$30,000; Role: PI
- American Cancer Society, Ohio Division 2000-2001  
*Cellular Resistance to RNA Tumor Viruses*  
 Total project costs \$20,000; Role: PI
- Wright State University School of Medicine Seed Grant 1998  
*Growth of Human Immunodeficiency Virus Type 1 in Eosinophils*  
 Total project costs \$7,500; Role: PI
- Ohio Research Challenge (PI: Wooley) 1995  
*Mechanisms of Retroviral Recombination*  
 Total project costs \$25,000; Role: PI

## HONORS

Steering Committee, NIH/Eagleson Conference on IBCs, 2009  
Study Section Member: NIH/NIAID GLRCE Study Section, 2005-present  
Study Section Member: Ohio Cancer Research Associates, 2007-present  
Session Chair for the Annual GLRCE Meeting, Hilton Head, SC, 2006, 2007, 2008  
Co-Chair, Ctr. for Retrovirus Research Distinguished Research Career Award (2002, 2005)  
Invited Speaker and Panelist at Ohio Valley Affiliates for Life Sciences Annual Conference (2003, 2009)  
Session Chair and Speaker, Howard Temin Commemorative Symposium, 1994  
Oral Presentations at Cold Spring Harbor Retroviruses Meeting (1990, 1992, 1993, 1998)  
Grant Proposal Reviewer, Ohio Valley Southern Affiliates Research Consortium of the American Heart Association, 2003  
Grant Proposal Reviewer, Joint Infrastructure Fund, The Wellcome Trust and UK Government, 1999  
Journal Article Reviewer for *Journal of Virology*, *Virology*, *AIDS Research and Human Retroviruses*, *Proceedings of the National Academy of Sciences USA*, *Gene*, and *Vaccine*

## MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

American Biological Safety Association, Member since 2005  
American Society for Virology, Lifetime member since 2000  
American Society for Microbiology, Member since 1992  
American Association for the Advancement of Science, Member since 1992

## RESEARCH FELLOWSHIPS

Albert J. Ryan Graduate Fellowship, Harvard	1991-1992
Office of Naval Research Graduate Fellowship	1986-1989
Katherine Wills Coleman Graduate Fellowship	1986

## TEACHING

### *Undergraduate Courses*

UH 400	Science, Medicine, and Society: AIDS	1999
M&I 431	Virology	1999-2001, 2007-present
M&I 434	Biological Safety	2006-present
M&I 445	Immunobiology	2000
M&I 488	Independent Reading	1995, 2004
M&I 499	Special Problems in Microbiology	1997-1999, 2004-2005
BIO 495	Senior Honors Research	2005-2006
BIO 499	Special Problems in Biology	2004-2005

### *Graduate Courses*

M&I 634	Biological Safety	2006-present
M&I 699	Special Problems in Microbiology	1997-1999, 2004-2006
M&I 727	Pathogenic Microbiology	2000
M&I 731	Virology	1999-2001, 2007-present

**TEACHING (continued)**

M&I 745	Immunobiology	2000
BMB 777	Gene Therapy	alternate years, 1998-present
M&I 789	Continuing Registration	1998-1999, 2006-2008
M&I 899	Graduate Research	1996-1998, 2005-2006
BMB 900	Biochemistry Seminar	2001-2002
BMS 990	Biomedical Sciences Seminar	1996, 2001-2002
BMS 994	Introduction to Research	1995-1998, 2006
BMS 995	Nondissertation Research	1996-2000, 2007-present
BMS 996	Laboratory Rotation I	1997-1999, 2007
BMS 997	Laboratory Rotation II	1996-1998
BMS 999	Dissertation Research	1997-2003
<i>Medical School Courses</i>		
SMD 530	Principles of Disease	2001-2006
<i>Wright State University Summer Programs</i>		
	STREAMS Program	1999
	Science Apprenticeship Program	1995-2004
	Horizons in Medicine	1995-1996
	Advanced Biological Sciences Institute	1995
	Summer Research Internship Program	1995
<i>Dissertation Committees</i>		
	Committee for Patricia McMillin	2003-2006
	Committee for Lucian Dumitrescu	2003-2004
	Committee for Poonam Khaira	2000-2001
	Committee for Bin Fang	1996-2000
	Committee for Lin Lin	1995-1999
<i>Thesis Committees</i>		
	Committee for Jennifer Monahan	2009-present
	Committee for Tara Gravenstine	2008-present
	Committee for Ryan McNichol	2006-2007
	Committee for Keven Huang	1999-2000
	Committee for Marjet Heitzer	1999-2000
	Committee for Christopher Mikesell	1996-1998
<i>Awards</i>		
	Teaching Enhancement Certificates	2000, 2001
	Wright State University Center for Teaching and Learning	

**RESEARCH SUPERVISION***Post-doctoral Level*

Virgilio Ponferrada	<i>Mechanisms of retroviral recombination; human endogenous retroviral interference</i>	2000-2002
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**RESEARCH SUPERVISION (continued)***Doctoral Level*

Robert McRae	<i>Nanotechnology-based therapeutics against biodefense agents</i>	2007-present
John Trefry	<i>Nanotechnology-based therapeutics against biodefense agents</i>	2007-present
Kelly Jo Huang	<i>Positive evolutionary selection and mutation rates of HIV-1 CNS-derived reverse transcriptase variants</i>	1998-2003
R. Jeffrey Taylor	<i>A model to study HIV-1 infection of eosinophils</i>	1998-2003
Lisa A. Bircher	<i>Accuracy of homologous recombination in retroviral systems and cell culture</i>	1996-2002

*Master's Level*

Kimberly Morris	<i>Topics in Biological Safety</i>	2007-present
Melissa Leaver	<i>Isolation of reverse transcriptase sequences from HIV-1-infected patients for mutation rate studies</i>	2005-present
Jude Atem	<i>HIV-1 infection of primary human eosinophils in AIDS patients</i>	2005-2008
Jai Marathe	<i>Susceptibility of primary human eosinophils to HIV-1 infection in culture</i>	2004-2006
Robert Ratzlaff	<i>Cells transfected with plasmids containing CpG motifs increase expression of gD of HSV-1</i>	1999-2000
Tracee Housel	<i>Construction and replication of simian immunodeficiency virus vectors</i>	1996-1999
John Rigano*	<i>Mutation and recombination in a spleen necrosis virus system</i>	1996-1998
Kevin Peterson	<i>A model of productive infection of eosinophils by human immunodeficiency virus type 1</i>	1996-1998

\*Outstanding Graduate Student

*Microbiology and Immunology M.S. Program*

1999

**MANUSCRIPTS IN PREPARATION**

Trefry, J. C., McRae, R. C., & Wooley, D. P. (2009). High throughput assay for measuring HIV titers.

Marathe, J. G., & Wooley, D. P. (2009). Quantification of HIV-1 DNA in eosinophilic cells exposed to X4 virus.

Marathe, J. G., & Wooley, D. P. (2009). A caution on the use of flow cytometry to analyze the purity of eosinophil isolations for HIV infection.

**MANUSCRIPTS IN PREPARATION (continued)**

- Taylor, R. J., & Wooley, D. P. (2009). Increased expression of chemotactic and inflammatory cytokine genes in HIV-1-infected eosinophilic cells.
- Huang, K. J., & Wooley, D. P. (2009). Mutation rates of CNS-derived HIV-1 reverse transcriptase variants.

**PUBLICATIONS (789 citations, ISI Database as of 1/14/07)**

- Wooley, D., Golshani, F., & Shingledecker, C. (2007). Information accrual for early detection of disasters and recovery planning, *Signal Processing Application for Public Security and Forensics* (pp. 1-5). Washington, DC: IEEE.
- Wooley, D. P., & Huang, K. J. (2007). Retroviral vector and cell-based assay for measuring the mutation rate of retroviruses employing same. USA: Wright State University, Dayton, OH. Patent Pending (Publication No. US-2007-0042352-A1).
- Marathe, J. G., & Wooley, D. P. (2007). Is gene therapy a good therapeutic approach for HIV-positive patients? *Genet. Vaccines and Ther.* 5(1), 5.
- Huang, K. J., & Wooley, D. P. (2005). A new cell-based assay for measuring the forward mutation rate of HIV-1. *J. Virol. Methods.* 124(1-2):95-104.
- Taylor, R. J., Schols, D., & Wooley, D. P. (2004). Restricted entry of R5 HIV Type 1 strains into eosinophilic cells. *AIDS Res. Hum. Retrov.*, 20(11), 1244-1253.
- Ponferrada, V. G., Mauck, B. S., & Wooley, D. P. (2003). The envelope glycoprotein of human endogenous retrovirus HERV-W induces cellular resistance to spleen necrosis virus. *Arch. Virol.*, 148(4), 659-675.
- Huang, K. J., Alter, G. M., & Wooley, D. P. (2002). The reverse transcriptase sequence of human immunodeficiency virus type 1 is under positive evolutionary selection in the brain. *J. NeuroVirol.* 8(4), 281-296.
- Bircher, L. A., Rigano, J. C., Ponferrada, V. G., & Wooley, D. P. (2002). High fidelity of homologous retroviral recombination in cell culture. *Arch. Virol.*, 147(9), 1665-1683.
- Wooley, D. P., Peterson, K. T., Taylor, R. J., Paul, C. C., & Baumann, M. A. (2000). Strain-dependent productive infection of a unique eosinophilic cell line by human immunodeficiency virus type 1 (HIV-1). *AIDS Res. Hum. Retrov.*, 16(14), 1405-1415.
- Peterson, K. J., & Wooley, D. P. (2000). Potential molecular determinants that maintain brain tropism during HIV-1 infection. *J. NeuroVirol.*, 6(5), 433.
- Wooley, D. P., Bircher, L. A., & Smith, R. A. (1998). Retroviral recombination is nonrandom and sequence dependent. *Virology*, 243(1), 229-234.
- Wooley, D. P., Smith, R. A., Czajak, S., & Desrosiers, R. C. (1997). Direct demonstration of retroviral recombination in a rhesus monkey. *J. Virol.*, 71(12), 9650-9653.
- Burns (Wooley), D. P., & Temin, H. M. (1994). High rates of frameshift mutations within homooligomeric runs during a single cycle of retroviral replication. *J. Virol.*, 68(7), 4196-4203.

**PUBLICATIONS (continued)**

- Burns (Wooley), D. P., & Desrosiers, R. C. (1994). Envelope sequence variation, neutralizing antibodies, and primate lentivirus persistence. In R. C. Desrosiers & N. L. Letvin (Eds.), *Current Topics in Microbiol. and Immunol.* (pp. 185-219). New York: Springer-Verlag.
- Choi, W. S., Collignon, C., Thiriart, C., Burns (Wooley), D. P., Stott, E. J., Kent, K. A., & Desrosiers, R. C. (1994). Effects of natural sequence variation on recognition by monoclonal antibodies that neutralize simian immunodeficiency virus infectivity. *J. Virol.*, 68(9), 5395-5402.
- Burns (Wooley), D. P., Collignon, C., & Desrosiers, R. C. (1993). Simian immunodeficiency virus mutants resistant to serum neutralization arise during persistent infection of rhesus monkeys. *J. Virol.*, 67(7), 4104-4113.
- Burns (Wooley), D. P., & Desrosiers, R. C. (1992). A caution of the use of SIV/HIV gag antigen detection systems in neutralization assays. *AIDS Res. Hum. Retrov.*, 8(6), 1189-1192.
- Javaherian, K., Langlois, A. J., Schmidt, S., Kaufmann, M., Cates, N., Langedijk, J. P. M., Meloen, R. H., Desrosiers, R. C., Burns (Wooley), D. P., Bolognesi, D. P., LaRosa, G. J., & Putney, S. D. (1992). The principal neutralization determinant of simian immunodeficiency virus differs from that of human immunodeficiency virus type 1. *Proc. Natl. Acad. Sci. USA*, 89(4), 1418-1422.
- Overbaugh, J., Hoover, E. A., Mullins, J. I., Burns (Wooley), D. P., Rudensey, L., Quackenbush, S. L., Stallard, V., & Donahue, P. R. (1992). Structure and pathogenicity of individual variants within an immunodeficiency disease-inducing isolate of FeLV. *Virology*, 188(2), 558-569.
- Burns (Wooley), D. P., & Desrosiers, R. C. (1991). Selection of genetic variants of simian immunodeficiency virus in persistently infected rhesus monkeys. *J. Virol.*, 65(4), 1843-1854.
- Kodama, T., Burns (Wooley), D. P., Silva, D. P., Veronese, F. D., & Desrosiers, R. C. (1991). Strain-specific neutralizing determinant in the transmembrane protein of simian immunodeficiency virus. *J. Virol.*, 65(4), 2010-2018.
- Burns (Wooley), D. P., & Desrosiers, R. C. (1990). Sequence variability of simian immunodeficiency virus in a persistently infected rhesus monkey. *J. Med. Primatol.*, 19(3-4), 317-326.
- Burns (Wooley), D. P., Kodama, T., Mori, K., Kestler, H. W., III, Morrison, H. G., Gibbs, J. S., Ringler, D. J., Daniel, M. D., & Desrosiers, R. C. (1990). Use of cloned SIVmac of defined sequence for the study of AIDS pathogenesis. *Cinquième Colloque Des Cent Gardes-1990*, 47-52.
- Kodama, T., Burns (Wooley), D. P., Kestler, H. W., III, Daniel, M. D., & Desrosiers, R. C. (1990). Molecular changes associated with replication of simian immunodeficiency virus in human cells. *J. Med. Primatol.*, 19(3-4), 431-437.
- Kodama, T., Kestler, H. W., III, Burns (Wooley), D. P., Ringler, D. J., King, N. W., Daniel, M. D., & Desrosiers, R. C. (1990). Nonhuman primate lentiviruses: models for human infection. *Develop. Biol. Standard.*, 72, 267-271.

**PUBLICATIONS (continued)**

- Kestler, H. W., III, Kodama, T., Burns (Wooley), D. P., Ringler, D. J., King, N. W., Daniel, M. D., & Desrosiers, R. C. (1989). Nonhuman primate models for human lentivirus infection and their use in vaccine research. *Quatrième Colloque Des Cent Gardes-1989*, 287-291.
- Kodama, T., Wooley, D. P., Naidu, Y. M., Kestler, H. W., III, Daniel, M. D., Li, Y., & Desrosiers, R. C. (1989). Significance of premature stop codons in *env* of simian immunodeficiency virus. *J. Virol.*, 63(11), 4709-4714.

**PUBLISHED ABSTRACTS AT INTERNATIONAL & NATIONAL CONFERENCES (40)**

- Trefry, J., & Wooley, D. (2009, December 4-5). *Antiviral activity of silver nanoparticles against poxvirus*. Poster presentation at the 7<sup>th</sup> Annual GLRCE Conference, Chicago, IL.
- Wooley, D. (2009, October 19-21). *Non-recombinant DNA: Beneath the radar*. Oral presentation at the 52<sup>nd</sup> Annual Biological Safety Conference, Miami, FL.
- McRae, R., Trefry, J., & Wooley, D. (2009, February 22-25). *Susceptibility of Yersinia pestis to Broad-Spectrum Nanostructured Therapeutics*. Oral presentation at the 7<sup>th</sup> Annual ASM Biodefense and Emerging Diseases Research Meeting, Baltimore, MD.
- Trefry, J., McRae, R., & Wooley, D. (2009, February 22-25). *Inhibition of Poxvirus and Filovirus Systems by Nanostructured Agents*. Poster presentation at the 7<sup>th</sup> Annual ASM Biodefense and Emerging Diseases Research Meeting, Baltimore, MD.
- McRae, R., Trefry, J., & Wooley, D. (2008, November 6-8). *Development of broad spectrum nanostructured antibacterial agents against Yersinia pestis*. Poster presentation at the 6<sup>th</sup> Annual GLRCE Conference, Hilton Head, SC.
- Trefry J., McRae, R., & Wooley, D. (2008, November 6-8). *Development of broad spectrum nanostructured antiviral agents against filoviruses and poxviruses*. Poster presentation at the 6<sup>th</sup> Annual GLRCE Conference, Hilton Head, SC.
- Wooley, D., Morris K., McRae R., & Trefry J. (2008, October 20-22). *Viral vectors in the laboratory: Just how safe are they?* Oral presentation at the 51<sup>st</sup> Annual Biological Safety Conference, Reno, NV.
- Wooley, D. P., Golshani, F., & Shingledecker, C. (2007, April 12-13). *Information Accrual for Early Detection of Disasters and Recovery Planning*. Oral presentation at the IEEE Signal Processing Society SAFE 2007: Worskhop on Signal Processing Applications for Public Security and Forensics, Washington, D.C.
- Wooley, D. P., and M. G. Marathe (2007, February 25-March 1). *Primary human eosinophils are highly susceptible to productive infection by X4 HIV-1*. Poster presentation at the 14<sup>th</sup> Annual Conference on Retroviruses and Opportunistic Infections, Los Angeles, CA.
- Wooley, D. P., and K. J. Huang (2006, July 15-19). *A new phenotypic assay for HIV-1-infected patients*. Oral presentation at the 25th Annual Meeting of the American Society for Virology, Madison, WI.
- Taylor, R. J., Marathe, J., & Wooley, D. P. (2006, July 15-19). *Increased cytokine gene expression in HIV-1-infected eosinophilic cells*. Poster presentation at the 25th Annual Meeting of the American Society for Virology, Madison, WI.

**PUBLISHED ABSTRACTS (continued)**

- Wooley, D. P., and K. J. Huang. (2006, April 10-12). *HIV-1 treatment monitoring assay*. Poster presentation at the Annual Biotechnology Industry Organization Conference, Chicago, IL.
- Wooley, D. P. (2006, March 28-29). *Genomic Biomarkers for Early Detection of Threat Exposure*. Oral presentation at the Tri-Service (Air Force, Army, Navy) Biomarker and Biomonitor Conference, Fairborn, OH.
- Taylor, R. J., Berberich, S. J., & Wooley, D. P. (2003, January 22, 2003). *Cytokine Gene Dysregulation in HIV-1-infected Eosinophilic Cells*. Poster presented at the Advanced Topics in Microarray Analysis Conference, Bethesda, MD.
- Huang, K. J., Alter, G. M., & Wooley, D. P. (2002, July 20-24). *The reverse transcriptase sequence of human immunodeficiency virus type 1 is under positive evolutionary selection in the brain*. Oral presentation at the 21st Annual Meeting of the American Society for Virology, Fort Collins, CO.
- Taylor, R. J., Schols, D., & Wooley, D. P. (2002, July 20-24). *CXCR4-dependent HIV-1 entry into eosinophilic cells*. Oral presentation at the 21st Annual Meeting of the American Society for Virology, Fort Collins, CO.
- Taylor, R. J., Schols, D., & Wooley, D. P. (2002, April 5-11). *Strain-dependent HIV-1 entry into eosinophilic cells*. Poster presented at the meeting on Recent Advances in the Biology and Pathogenesis of Primate Lentiviruses (X7), Keystone, CO.
- Peterson, K. J., & Wooley, D. P. (2000, September 14-16). *Potential molecular determinants that maintain brain tropism during HIV-1 infection*. Poster presented at the 3<sup>rd</sup> International Symposium on NeuroVirology, San Francisco, CA.
- Wooley, D. P., Peterson, K. T., Taylor, R. J., Paul, C. C., & Baumann, M. A. (2000, July 8-13). *Strain-dependent productive infection of a unique eosinophilic cell line by HIV-1*. Oral presentation at the 19th Annual Meeting of the American Society for Virology, Fort Collins, CO.
- Taylor, R. J., Paul, C. C., Baumann, M. A., & Wooley, D. P. (2000, May 23-28). *Chemokine receptor and cytokine expression by a unique eosinophilic cell line susceptible to HIV-1 infection*. Poster presented at the Retroviruses Meeting, Cold Spring Harbor, New York.
- Peterson, K. J., & Wooley, D. P. (2000, May 23-28). *Potential molecular determinants that maintain brain tropism during HIV-1 infection*. Poster presented at the Retroviruses Meeting, Cold Spring Harbor, New York.
- Taylor, R. J., Peterson, K. T., Paul, C. C., Baumann, M. A., & Wooley, D. P. (1999, March 4-7). *Strain dependent infection of a unique eosinophilic cell line by human immunodeficiency virus type 1*. Poster presented at The 1999 Palm Springs Symposium: HIV Pathogenesis as a Foundation for New Therapies, Palm Springs, CA.
- Wooley, D. P., Peterson, K. T., Paul, C. C., & Baumann, M. A. (1998, December 3-5). *Strain Dependent Infection of a Unique Eosinophilic Cell Line by Human Immunodeficiency Virus type 1*. Oral presentation at the 1998 International Workshop on Retroviral Pathogenesis, Newport Beach, CA.

**PUBLISHED ABSTRACTS (continued)**

- Wooley, D. P., Rigano, J. C., & Bircher, L. A. (1998, May 26-31). *Mutation and recombination in a spleen necrosis virus based system*. Oral presentation at the Retroviruses Meeting, Cold Spring Harbor, NY.
- Peterson, K. T., Paul, C. C., Baumann, M. A., & Wooley, D. P. (1998, May 26-31). *A model of productive infection of eosinophils by human immunodeficiency virus type 1*. Poster presented at the Retroviruses Meeting, Cold Spring Harbor, NY.
- Peterson, K. T., & Wooley, D. P. (1998, February 26-28). *Growth characteristics of human immunodeficiency virus type 1 in a unique eosinophilic cell line*. Poster presented at the Eastern Student Research Forum, Miami, FL.
- Bircher, L. A., Rigano, J. C., Smith, R. A., & Wooley, D. P. (1997, May 20-25). *Retroviral recombination is nonrandom and sequence dependent*. Poster presented at the Retroviruses Meeting, Cold Spring Harbor, NY.
- Wooley, D. P., Smith, R. A., Czajak, S., & Desrosiers, R. C. (1997, May 20-25). *Demonstration of retroviral recombination in a rhesus monkey*. Poster presented at the Retroviruses Meeting, Cold Spring Harbor, NY.
- Bircher, L. A., Rigano, J. C., Smith, R. A., & Wooley, D. P. (1997, April 17-19). *Retroviral recombination is nonrandom in a spleen necrosis virus system*. Oral presentation at the National Student Research Forum, Galveston, TX.
- Wooley, D. P., Czajak, S., & Desrosiers, R. C. (1996, October 1-4). *Demonstration of retroviral recombination in a rhesus monkey*. Poster presented at the 9th Entretien Jacques Cartier Congress on AIDS Pathogenesis, Montréal, Canada.
- Smith, R. A., Bircher, L. A., & Wooley, D. P. (1996, May 21-26). *Hotspots for retroviral recombination*. Poster presented at the Retroviruses Meeting, Cold Spring Harbor, New York.
- Burns (Wooley), D. P. (1994, October 13-15). *Rate and nature of mutations with long runs of identical nucleotides during SNV replication*. Oral presentation at the Howard M. Temin Commemorative Symposium, Madison, WI.
- Burns (Wooley), D. P., & Temin, H. M. (1994, May 24-29). *High rates of frameshift mutations with homo-oligomeric runs during a single cycle of retroviral replication*. Poster presented at the Retroviruses Meeting, Cold Spring Harbor, NY.
- Burns (Wooley), D. P., & Temin, H. M. (1993, May 25-30). *Rates of mutation within long homopolymer runs during a single cycle of retroviral replication*. Oral presentation at the Retroviruses Meeting, Cold Spring Harbor, NY.
- Choi, W. S., Collignon, C., Bruck, C., Burns (Wooley), D. P., Kent, K., Stott, J., & Desrosiers, R. C. (1993, May 25-30). *Neutralization escape by simian immunodeficiency virus*. Poster presented at the Retroviruses Meeting, Cold Spring Harbor, NY.
- Burns (Wooley), D. P., Collignon, C., & Desrosiers, R. C. (1992, May 19-24). *Genetic variants of SIVmac that arise in rhesus monkeys are resistant to serum neutralization*. Oral presentation at the Retroviruses Meeting, Cold Spring Harbor, NY.

## **PUBLISHED ABSTRACTS (continued)**

Collignon, C., Burns (Wooley), D. P., Bruck, C., Kent, K., Stott, J., DeWilde, M., & Desrosiers, R. C. (1992, May 19-24). *V4 and/or V5 variable regions of SIVmac gp120 determine recognition by neutralizing monoclonal antibodies*. Oral presentation at the RNA Tumor Viruses Meeting, Cold Spring Harbor, NY.

Burns (Wooley), D. P., & Desrosiers, R. C. (1990, May 23-27). *Selection of genetic variants of SIV in a persistently infected rhesus monkey*. Oral presentation at the RNA Tumor Viruses Meeting, Cold Spring Harbor, NY.

Burns (Wooley), D. P., & Desrosiers, R. C. (1989, October 11-13). *Sequence variability of simian immunodeficiency virus in persistently infected rhesus macaques*. Oral presentation at the 7th Annual Symposium on Nonhuman Primate Models for AIDS, Portland, OR.

Kodama, T., Wooley, D. P., Naidu, Y. M., Kestler, H. W., III, Daniel, M. D., Li, Y., & Desrosiers, R. C. (1989, June 4-9). *The significance of premature stop codons in env of SIV*. Poster presented at the V International Conference on AIDS, Montréal, Canada.

## **INVITED LECTURES**

General Topics: AIDS, HIV-1, Retroviral Variation and Pathogenesis, Biodefense, Biosafety, Nanotechnology, and Gene Therapy

VA Medical Center, Dayton, OH, November 17, 2009

*Infectious Disease and Hematology and Oncology Research Conference*

Battelle National Biodefense Institute, Frederick, MD, August 5, 2009

*National Biodefense Analysis and Countermeasures Center*

National Institutes of Health and Eagleson Institute, Arlington, VA, June 25, 2009

*Conference on Institutional Biosafety Committees: Promoting Optimal Practice Now and in the Future*

Ohio Valley Affiliates for Life Sciences, Dayton, OH, April 3, 2009

*7<sup>th</sup> Annual Conference: Taking Flight—The Future of Bioscience*

Wright State University, Dayton, OH, May 9, 2008.

*Department of Biochemistry and Molecular Biology*

American Society of Safety Engineers, February 6, 2008

*Local Chapter, Dayton, OH*

VA Medical Center, Dayton, OH, October 16, 2007

*Infectious Disease Research Conference in Hematology and Oncology*

University of Chicago, Chicago, IL, March 20, 2007

*Department of Microbiology*

Harvard Medical School, Boston, MA, November 8, 2006

*Department of Microbiology and Molecular Genetics*

VA Medical Center, Dayton, OH, May 23, 2006

*Medical Resident's Forum*

## INVITED LECTURES (continued)

Miami Valley Health Information Mgt. Assoc., Miamisburg, OH, November 4, 2005  
*Semi-annual Conference*

Ohio State University, Columbus, OH, November 1, 2000  
*Department of Molecular Virology, Immunology and Medical Genetics*

Wright State University, Dayton, OH, October 6, 1999.  
*Department of Biology*

Miami University, Oxford, OH, December 9, 1998.  
*Department of Microbiology*

Ohio State University, Columbus, OH, May 12, 1997.  
*Department of Veterinary Biosciences and the Center for Retrovirus Research*

Northeastern Ohio Universities College of Med., Rootstown, OH, October 22, 1996.  
*Department of Microbiology*

Wright State University, Dayton, OH, May 17, 1996.  
*Department of Biochemistry and Molecular Biology*

St. Louis University Medical Center, St. Louis, MO, October 20, 1994.  
*Institute for Molecular Virology*

Emory University School of Medicine, Atlanta, GA, September 13, 1994.  
*Department of Microbiology and Immunology*

Wright State University School of Medicine, Dayton, OH, September 9, 1994.  
*Department of Microbiology and Immunology*

Cancer Research Institute, Bratislava, Slovakia, August 8, 1994.  
*Slovak Academy of Sciences*

The Cleveland Clinic Foundation, Cleveland, OH, June 16, 1994.  
*Department of Molecular Biology*

Hershey Medical Ctr., Penn State College of Med., Hershey, PA, January 13, 1994.  
*Department of Microbiology and Immunology*

## SERVICE

### *National Level*

Scientific Program Committee, ABSA	Member (appointed)	2010-present
IBC Services	Member (appointed)	2008-present
GLRCE Executive Committee	Member (appointed)	2005-present
NIH/NIAID GLRCE Study Section	Member (appointed)	2005-present
Grant Proposal Reviewer	Appointed	Various Years
Journal Article Reviewer	Appointed	Various Years

### *Wright State University*

Institutional Biosafety Committee	Chair (appointed)	2007-present
Institutional Biosafety Committee	Member (appointed)	1998-2007
Lab Stores Advisory Committee (ad hoc)	Member (appointed)	2003-2004
Radiation Safety Committee	Member (appointed)	1996-2001

**SERVICE (Continued)***School of Medicine*

Executive Committee	Member (elected)	2006-2007
Research Committee	Member (elected)	1997-2001
American Heart Assoc. Fellowship Review	Member (appointed)	1998
Nominating Committee	Member (elected)	1996-1998
Internet Operational Committee (ad hoc)	Designee (appointed)	1996-1997

*College of Science and Mathematics*

Research Advisory Committee	Member (appointed)	2008-present
Safety Committee (ad hoc)	Member (appointed)	2006-2007
Space Committee (ad hoc)	Member (appointed)	2003-2004
Computing and Technology Committee	Member (appointed)	1999-2002
Curriculum Committee	Member (elected)	1998-2002
Academic Mediation Committee	Chair (appointed)	1995-1997

*Faculty Governance*

AAUP Committee W	Member (appointed)	2007
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*Biomedical Sciences*

Biodefense Area Leader	Leader (appointed)	2007-present
Admissions Committee	Member (elected)	2008-present
DVD Committee	Member (appointed)	2007
Academic Policies	Member (elected)	2005-2007
Nominating Committee	Member (elected)	2000-2002
Curriculum Committee	Member (elected)	1998-2000
Admissions Committee	Member (elected)	1996-1998

*Department*

NCBP Activities and Accomplishments	Member (appointed)	2007-present
ANT Faculty Development Committee	Member (appointed)	2003-present
NCBP Faculty Search Committee	Chair (appointed)	2007
BMB Diversity Workshop Committee (ad hoc)	Member (appointed)	2002-2003
BMB Space Committee (ad hoc)	Member (appointed)	2001-2002
BMB Disaster Plan Committee (ad hoc)	Member (appointed)	2001-2002
BMB Teaching Committee (ad hoc)	Member (appointed)	2000-2001
BMB Faculty Search Committee	Member (appointed)	2000
M&I Faculty Search Committee	Member (appointed)	1998-1999
M&I Faculty Search Committee	Member (appointed)	1997

*Program*

M&I Master's Program Admissions Committee	Member (appointed)	2004-present
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*University of Wisconsin Medical School*

McArdle Laboratory Safety Committee	Member (appointed)	1992-1995
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## COMMUNITY SERVICE

Wright State University Graduation Ceremony, 1996, 2000, 2002, 2003  
Materials on the Intl. Space Station, project with Stebbins High School, 2000-2002  
Ohio West District Science Day Judge, Wright State University Nutter Center, 1996-1999  
New Faculty Retreat, panel member for session on “Surviving the First Year,” 1999  
Mentor for high school student Karin Lemkau on “Daughters at Work Day,” 1999  
The Names Project, AIDS Memorial Quilt, Wright State University, 1998  
Mentor for junior student Monica Smith, Wayne High School, 1998  
Mentor for senior student Ara Beal, Carroll High School, 1997-1998

## PROFESSIONAL DEVELOPMENT

IBCs: Promoting Optimal Practice Now and in the Future, June 24-26, 2009  
*National Institutes of Health and Eagleson Institute, Arlington, VA*

Biosafety and Risk Assessment, June 24, 2009  
*National Institutes of Health and Eagleson Institute, Arlington, VA*

51<sup>st</sup> Annual Biological Safety Conference, October 20-22, 2008  
*American Biological Safety Association, Nashville, TN*

Incident Investigation, October 19, 2008  
*American Biological Safety Association, Reno, NV*

Auditing for the Safety Professional, October 19, 2008  
*American Biological Safety Association, Reno, NV*

An Introduction to the NIH Guidelines and the Oversight of Recombinant DNA Research,  
October 18, 2008, *American Biological Safety Association, Reno, NV*

50<sup>th</sup> Annual Biological Safety Conference, October 7-10, 2007  
*American Biological Safety Association, Nashville, TN*

The Tenth Annual Conference on Vaccine Research, April 30-May 2, 2007  
*National Foundation for Infectious Diseases, Baltimore, MD*

Principles and Practices of Biosafety, August 8-12, 2005  
*American Biological Safety Association, Cambridge, MA*

Microarray Data Analysis Workshops Levels III and IV, March 17-18, 2005  
*Agilent Technologies, Phoenix, AZ*

Microarray Data Analysis Workshops Levels I and II, February 14-15, 2005  
*Agilent Technologies, Bethesda, MA*

Experiencing Team-Based Learning Workshop, March 4, 2003  
*Wright State University School of Medicine*

Team Learning in Medical Schools, September 27, 2002  
*Wright State University School of Medicine*

Fundamentals of WebCT, January 19, 2001  
*Wright State University Center for Teaching and Learning*

Peer Evaluation of Teaching, February 25, 2000  
*Wright State University Center for Teaching and Learning*

**PROFESSIONAL DEVELOPMENT (continued)**

Promotion Preparation Clinic, September 1998, 1999

*Wright State University School of Medicine*

Academic Dishonesty Workshop, May 27, 1999

*Wright State University Center for Teaching and Learning*

Teaching Portfolio Workshop, March 3, 1999

*Wright State University Center for Teaching and Learning*

Promotion and Tenure Workshop, February 3, 1999

*Wright State University Center for Teaching and Learning*

Research Ethics Workshop Series, 1997, 1999

*Wright State University Office of Research and Sponsored Programs*

Image Acquisition and Manipulation Workshop, November 6, 1998

*Wright State University Center for Teaching and Learning*

Overview of the Wisconsin Genetics Software Package, March 24-25, 1998

*Wright State University*

Focus Group on Faculty Attitudes Related to Research, November 22, 1996

*Wright State University School of Graduate Studies and Research*

Faculty Development and Recruitment Workshop, May 19, 1995

*Wright State University School of Medicine*