

**DAWN PATRICIA WOOLEY, PhD, SM(NRCM), RBP, CBSP***Wright State University, 3640 Colonel Glenn Hwy, Dayton, OH 45435***EDUCATION**

- Ph.D. Harvard University, Virology 1986-1992  
 Dissertation Title: *Envelope sequence variation and immune selection of simian immunodeficiency virus (SIV) in persistently infected rhesus monkeys.*
- B.S. Pennsylvania State University, Microbiology 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*

**RESEARCH FELLOWSHIPS**

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

**PROFESSIONAL POSITIONS**

- Full Professor with tenure, Wright State University, Dayton, OH 2018-present  
*Primary Appointment, Dept. of Neuroscience, Cell Biology, and Physiology*  
*Secondary Appointment, Dept. of Emergency Medicine*
- Director of the Master of Science Program in Microbiology & Immunology 2018-present
- Director of the Biosafety Level 3 Lab., Wright State University, Dayton, OH 1995-2020
- Associate Professor with tenure, Wright State University, Dayton, OH 2001-2018
- Assistant Professor, Wright State University, Dayton, OH 1995-2001

**PROFESSIONAL CERTIFICATIONS:****(Must stay up-to-date in the field and continually re-certify with continuing education):**

- Certified Biosafety Professional (CBSP) no. 05-135, ABSA 2006-2025
- Specialist Microbiologist in Biological Safety, NRCM, no. 4896 2005-2025
- Registered Biosafety Professional (RBP) no. 135, ABSA 2005-2025

**PROFESSIONAL AFFILIATIONS:**

- Member of the Center for Retrovirus Research 1997-present  
*The Ohio State University, Columbus, OH*
- Executive Board Member of the NIH/NIAID Region V "Great Lakes" 2005-2013  
 Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research, *The University of Chicago*

## **SCHOLARLY ACTIVITY HIGHLIGHTS (past 7 years):**

Editorial Board, *Applied Biosafety*, 2009-present

Ten (10) invited external presentations

Study Section Member: Ohio Cancer Research Associates, 2007-2021

Government policy writing:

Member of the Poliovirus Containment Working Group, CDC CPR, 2022-present

Co-chair of the Poliovirus Containment Working Group, CDC CPR, 2020-2022

Co-chair of the Biological Agent Containment Working Group, CDC OPHPR, 2017-2020

Review of NIH Gene Therapy protocols:

NIH Recombinant DNA Advisory Committee Member, 2012-2017

## **SCHOLARLY ACTIVITY HIGHLIGHTS (1995-2016):**

Steering Committee, NIH/Eagleson Conference on IBCs, 2009, 2012

Study Section Member: NIH/NIAID GLRCE Study Section, 2005-2013

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 PLOS ONE, *J. Virology*, *Virology*, *AIDS Research and Human Retroviruses*, *Proceedings of the National Academy of Sciences USA*, *Gene*, and *Vaccine*, *Clinical and Vaccine Immunology*, *Clinical Microbiology Rev.*, *Applied Biosafety*, *Pharmaceutical Nanotechnology*, ASM's *Microbiology Spectrum* journal

## **MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS**

The Midwest Area Biosafety Network, Member since 2011

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

## **GRADUATE FACULTY APPOINTMENTS**

Environmental Sciences Ph.D. Program, Wright State University

2010-present

Anatomy & Physiology M.S. Program, Wright State University

2003-present

Biomedical Sciences Ph.D. Program, Wright State University

1996-present

Microbiology & Immunology M.S. Program, Wright State University

1995-present

## CURRENT TEACHING

MI 4340/6340	Biological Safety	2006-present
MI 4310/6310	Virology	1999-2001, 2007-present
MI 4750/6750	Pathogenic Mechanisms	2023-present
MI 4990/6990	Special Problems in Micro and Immunology	1997-present
MI 7000	Microbiology and Immunology Seminar	2023-present
MI 7770	Gene Therapy	1998-present
SMD 8130	Host and Defense	2021-present
MI 7890	Research in Microbiology and Immunology	1998-present
MI 7990	Microbiology and Immunology Thesis Research	1996-present
PN 7080	Thesis and Dissertation Writing	2024-present

## PAST TEACHING

UH 4000	Science, Medicine, and Society: AIDS	1999
BIO 4010/M&I 4750	Pathogenic Mechanisms	2013
BIO 4950	Senior Honors Research	2005-2006
BIO 4990	Special Problems in Biology	2004-2005
M&I 4450	Immunobiology	2000
M&I 4880	Independent Reading	1995, 2004
BIO 4020	Current Literature in Stem Cell Gene Therapy	2019
BMB 9000	Biochemistry Seminar	2001-2002
BMS 9900	Biomedical Sciences Seminar	1996, 2001-2002
BMS 9940	Introduction to Research	1995-1998, 2006
BMS 9950	Nondissertation Research	1996-2000, 2007-2010
BMS 9990	Dissertation Research	1997-2003, 2008-2011
M&I 7270	Pathogenic Microbiology	2000
M&I 7450	Immunobiology	2000
SMD 5300	Principles of Disease	2001-2006

### *Wright State University Summer Programs*

STREAMS Program	1999
Science Apprenticeship Program	1995-2004
Horizons in Medicine	1995-1996
Advanced Biological Sciences Institute	1995
Summer Research Internship Program	1995

## DISSERTATION COMMITTEES

Michele Miller	2019-2020
James Readler	2016-2019
Poornima Narayan	2011-2014
Amana Freeman (BMS Representative)	2010-2013
Daniel Homer (BMS Representative)	2011-2012
Nora Hunter	2010-2011
Patricia McMillin	2003-2006
Lucian Dumitrescu	2003-2004
Poonam Khaira	2000-2001
Bin Fang	1996-2000
Lin Lin	1995-1999

**THESIS COMMITTEES**

Yamini Somanchi 2023	Sheetal Sreepada 2023	Bindu Madabattula 2022
Alaa Qishta 2022	Chandra Koopari 2022	Lauren Krause 2022
Alanoud Ghonaim 2021	Rawan Alqahtani 2021	Nada Alghanem 2021
P. Chareunsouk 2020	Cora Cox 2021	Katherine Bingham 2021
Tahirah Madkhali, 2019	Darlington Abrefa 2020	Rita Amediavor 2020
Amal Alkahlout 2019	Hend Alrabati 2019	Amani Alhazmi 2019
Olena Svitlova 2019	Justine Kastle 2019	Mike Castro 2019
Romel Murray 2019	Sankhadip Bhadra 2019	Wedad Mudayfin 2019
Fahad Alradi 2018	Shayna Wallace 2018	Andreea Muntean 2018
Yousef Alanazi 2018	Ghaith Fallata, 2017	Khalid Alyahya, 2017
Colt Capan, 2017	Kyrillos Elsobky, 2017	Urmimala Chaudhuri, 2017
Hend Alrabati, 2017	Wilfresha Adweya, 2017	Maher Alwethaynani, 2017
Jessica Hey, 2017	Maha Elwardany, 2017	Helen Ritchey, 2016
Badrieah Alamri, 2016	Maher Alwethaynani, 2016	Mofeda Alhanghari, 2016
Amal Alajman, 2016	Mubarak Almutairi, 2016	Ryan Becker, 2016
Riham Subahi, 2016	Safaa Alsulaimani, 2016	Wilfresha Adweya, 2016
Fatimah Alawami, 2015	Rubya Khanum, 2015	Nasrah Al Kamal, 2015
Nouf Alrashidi, 2015	Sahar Kamel, 2014	Arathi Paluri, 2012
Jennifer Monahan, 2011	Ryan McNichol, 2007	Keven Huang, 2000
Marjet Heitzer, 2000	Christopher Mikesell, 1998	

**Awards**

Teaching Enhancement Certificates	2000, 2001
Wright State University Center for Teaching and Learning	

**RESEARCH SUPERVISION (Post-doctoral/Dissertation/Thesis Advisor)***Post-doctoral Level*

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

John Trefry	<i>The development of silver nanoparticles as antiviral agents</i>	2007-2011
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

**RESEARCH SUPERVISION (Dissertation/Thesis Advisor), continued***Master of Science Level*

Varsha Paka	<i>Interferon stimulation of ACE2 expression in Vero Cells</i>	2022-2023
Ulysses Ison	<i>Novel Analysis of SARS-CoV-2 Genome to Identify Possibility of Positive Selection in Emerging Variants</i>	2023
Jarod Compaleo	(co-advisor) <i>A Novel Therapeutic Approach to Regulate CAREx8 Protein Expression through E6-conjugated Cell Penetrating Peptides</i>	2023
Mark Calabro	<i>Investigating Streptococcus pneumoniae and Adenovirus co-infections of Lung Epithelial Cells</i>	2021
Bryce Anderson	<i>Treatment of Apical Periodontitis via Combination Therapy Using Purified Lactobacillus plantarum Lipoteichoic Acid and Intracanal Calcium Hydroxide</i>	2020-2021
Tracy Attikple	<i>Hemagglutinin Binding to Sialic Acid Produces High Virulence in the 1918 Pandemic Virus</i>	2019-2020
Rohan Kulkarni	<i>Ebola: An Airborne Menace? A look Into Ebola's Potential to Spread by Air</i>	2015-2016
Sally AlAli	<i>Novel Approaches for the Eradication of HIV Latently Infected Cell</i>	2011-2013
Swathee Chinnasamy	<i>Developing a quantitative PCR assay for detecting viral vector shedding from animals</i>	2009-2011
Amani Alhejely	<i>Amino acid substitutions created in reverse transcriptase and their influence on HIV-1 mutation frequencies</i>	2009-2011
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, *Outstanding Student 1999</i>	1996-1998
Kevin Peterson	<i>A model of productive infection of eosinophils by human immunodeficiency virus type 1</i>	1996-1998

## RESEARCH SUPERVISION (Dissertation/Thesis Advisor), continued

### Undergraduate Level

Darshini Trevadi	<i>Isolation of monocytes from whole blood for virology studies (WSU Honors Program)</i>	2004-2006
Courtney Stanforth	<i>Mammalian cell culture and isolation of total cell RNA for gene expression studies</i>	2003-2004

## RESEARCH GRANTS

National Institutes of Health/NIAID, R21AI093268	<i>Molecular Evolution of AAV Vectors for Anti-HIV Gene Therapy; Role: co-I</i>	2011-2014
American Biological Safety Assoc/Elizabeth R. Griffin Research Foundation	<i>Shedding of Virus from Animals Infected with Viral Vectors; Role: PI</i>	2009-2013
Research Council Research Initiation Grant/Ohio Board of Regents	<i>Evolution of AAV Vectors for HIV-infected Cells; Role: co-PI</i>	2010-2011
Technology Commercialization Research Challenge/Ohio Board of Regents	<i>HIV-1 Treatment Monitoring Assay; Role: PI</i>	2006-2011
Henry M. Jackson Foundation	<i>Neutralization of Plague Bacteria by Nanobodies; Role: PI</i>	2007-2009
Henry M. Jackson Foundation	<i>Inhibition of Category A Virus Infection Using Nanotechnology</i> Role: PI	2007-2008
University of Minnesota (NIH/NIAID Program Grant)	Prime Award No. U56-AI57164; Subaward No. M6286208801 <i>Early Detection of Hemorrhagic Fever Virus Exposure</i> Role: PI	2003-2006
Major Collaboration Research Challenge Grant, Ohio Board of Regents	<i>Cellular Response to Hemorrhagic Fever Virus; Role: PI</i>	2003-2005
National Institutes of Health, R29CA72239	<i>Molecular Mechanisms of Retroviral Variation; Role: PI</i>	1996-2002
Gene Expression Laboratory/Kettering Fund	<i>Gene Expression Studies of HIV-1-Infected Eosinophilic Cells; Role: PI</i>	2002
Ohio Research Challenge/Ohio Board of Regents	<i>Retroviral Variation and Mechanisms of Cellular Tropism; Role: PI</i>	2001
American Cancer Society, Ohio Division	<i>Cellular Resistance to RNA Tumor Viruses; Role: PI</i>	2000-2001
Wright State University School of Medicine Seed Grant	<i>Growth of Human Immunodeficiency Virus Type 1 in Eosinophils; Role: PI</i>	1998
Ohio Research Challenge/Oho Board of Regents	<i>Mechanisms of Retroviral Recombination; Role: PI</i>	1995

## GOVERNMENT POLICY PUBLICATIONS

Note: I have been co-chairing a working group for the Centers for Disease Control and Prevention since 2017, and we have been writing government policies for the containment of Poliovirus after its eradication. A series of published policies is listed below:

U.S. National Authority for Containment of Poliovirus, Centers for Disease Control and Prevention. Inactivation Policy. Version 1. **June 2021**.

U.S. National Authority for Containment of Poliovirus, Centers for Disease Control and Prevention. Shared Use of PEFs. Version 2. **June 2021**.

U.S. National Authority for Containment of Poliovirus, Centers for Disease Control and Prevention. Transfer Policy. Version 2. **May 2021**.

U.S. National Authority for Containment of Poliovirus, Centers for Disease Control and Prevention. Security Policy. Version 2. **May 2021**.

U.S. National Authority for Containment of Poliovirus, Centers for Disease Control and Prevention. Inventory Policy. Version 2. **May 2021**.

U.S. National Authority for Containment of Poliovirus, Centers for Disease Control and Prevention. Risk Mitigation Strategies. Version 2. **February 2021**.

U.S. National Authority for Containment of Poliovirus, Centers for Disease Control and Prevention. Biorisk management and risk assessment. Version 1. **April 2020**.

U.S. National Authority for Containment of Poliovirus, Centers for Disease Control and Prevention. PPE and Hand Hygiene Practices. Version 1. **September 2019**.

U.S. National Authority for Containment of Poliovirus, Centers for Disease Control and Prevention. Transfer Policy. Version 1. **September 2019**.

U.S. National Authority for Containment of Poliovirus, Centers for Disease Control and Prevention. Personal Reliability Policy. Version 1. **September 2019**.

U.S. National Authority for Containment of Poliovirus, Centers for Disease Control and Prevention. Storage Outside of Containment Policy. Version 1. **December 2018**.

U.S. National Authority for Containment of Poliovirus, Centers for Disease Control and Prevention. Physical Security Policy. Version 1. **December 2018**.

U.S. National Authority for Containment of Poliovirus, Centers for Disease Control and Prevention. Record of Access Policy. Version 1. **December 2018**.

U.S. National Authority for Containment of Poliovirus, Centers for Disease Control and Prevention. Inventory Policy. Version 1. **December 2018**.

## SCIENTIFIC JOURNAL AND BOOK PUBLICATIONS (\*Corresponding Author)

Adelman, Z. N.\*, Albritton, L. M., Boris-Lawrie, K., Buchmeier, M. J., Cannon, P., Cho, M., DiGiusto, D., Donahue, J. K., Federoff, H. J., Hammarskjold, M.-L., Hardison, A. D. Hearing, P., Lee, B., Lee, D. A., Porteus, M. H., Ross, L. F., Ross, S. R., Wooley, D. P., Zoloth, L. (2018). Protect NIH's DNA advisory committee. *Science* 26 Oct 2018:Vol. 362, Issue 6413, pp. 409-410. DOI: 10.1126/science.aav2483.

## PUBLICATIONS, continued

- Wooley, D. P.,\* Sharma, P., Weinstein, J. R., Narayan, P. K. L., Schaffer, D. V., & Excoffon, K. J. D. A.\* (2017). A directed evolution approach to select for novel Adeno-associated virus capsids on an HIV-1 producer T cell line. *J. Virol. Methods*. 250:47-54. PMID: 28918073. DOI: 10.1016/j.jviromet.2017.09.008.
- Wooley, D. P.,\* & Vasanth, S. (2017). Duplex quantitative polymerase chain reaction assay for detection of adenoviral and lentiviral vectors. *Applied Biosafety*, 22(3):104-113. DOI: 10.1177/1535676017714221.
- Wooley, D. P.,\* & Byers, K. B. (Eds.). (2017). *Biological Safety: Principles and Practices* (5th ed.). Washington, DC: ASM Press.
- Wooley, D. P.\* (2017). Molecular Agents. In D. P. Wooley & K. B. Byers (Eds.), *Biological Safety: Principles and Practices* (5th ed., pp. 269-283). Washington, DC: ASM Press.
- Wooley, D. P.,\* & Fleming, D. O. (2017). Risk Assessment of Biological Hazards. In D. P. Wooley & K. B. Byers (Eds.), *Biological Safety: Principles and Practices* (5th ed., pp. 95-104). Washington, DC: ASM Press.
- Schlimgen, R., Howard, J., Wooley, D., Thompson, M., Baden, L. R., Yang, O. O., Christiani, D. C., Mostoslavsky, G., Diamond, D. V., Duane, E. G., Byers, K., Winters, T., Gelfand, J. A., Fujimoto, G., Hudson, T. W., Vyas, J. M.\* (2016). Risks associated with lentiviral vector exposures and prevention strategies. *J Occup Environ Med*, 58(12), 1159-1166. DOI:10.1097/JOM.0000000000000879.
- Trefry, J. C., & Wooley, D. P.\* (2013). Silver nanoparticles inhibit *Vaccinia virus* infection by preventing viral entry through a macropinocytosis-dependent mechanism. *J. Biomed. Nanotechnol.* 9(9):1624-1635. DOI: <http://dx.doi.org/10.1166/jbn.2013.1659>. PMID: 23980510.
- Wooley, D.P., Weinstein, J., Narayan, P.K.L, Sharma, P., Schaffer, D., and Excoffon, K.J.D.A.\* (2013). Development of novel *Adeno-associated virus* variants targeting HIV-infected T cells. *Mol. Ther.* 21(Suppl. 1):S102.
- Anders, C. B., Baker, J. D., Stahler, A. C., Williams, A. J., Sisco, J. N., Trefry, J. C., Wooley, D. P.,\* & Sizemore I. E. P.\* (2012). Tangential flow ultrafiltration: A "green" method for the size selection and concentration of colloidal silver nanoparticles. *J. Vis. Exp.* (68), e4167, doi:10.3791/4167.
- Trefry, J. C., & Wooley, D. P.\* (2012). Rapid assessment of antiviral activity and cytotoxicity of silver nanoparticles using a novel application of the tetrazolium-based colorimetric assay. *J. Virol. Methods*. 183(1):19-24. DOI:10.1016/j.jviromet.2012.03.014. PMID: 22465243.
- Trefry, J.C., Monahan, J. L., Weaver, K. M., Meyerhoefer, A. J., Markopolous, M. M., Arnold, Z. S., Wooley, D. P.,\* & Pavel, I. E.\* (2010). Size selection and concentration of silver nanoparticles by tangential flow ultrafiltration for SERS-based biosensors. *J. Am. Chem. Soc.* 132(32):10970–10972. DOI 10.1021/ja103809c. PMID: 2069864.
- 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.



## **PUBLICATIONS, continued**

- 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. United States Patent Application 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. DOI:10.1186/1479-0556-5-5. PMID: 17300725. PMCID: PMC1810294.
- 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. DOI 10.1016/j.jviromet.2004.11.010. PMID: 15664056.
- 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. PMID: 15588346.
- 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. DOI 10.1007/s00705-002-0960-x. PMID: 12664292.
- 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. DOI 10.1080/13550280290100716. PMID: 12161813.
- 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. DOI 10.1007/s00705-002-0843-1. PMID: 12209308.
- 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. PMID: 11018860.
- 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. PMID: 9527932.
- 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. PMID: 9371629. PMCID: PMC230273.
- 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. PMID: 7515970. PMCID: PMC236342.
- 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. PMID: 7523031.
- 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. PMID: 7520089. PMCID: PMC236939.

## PUBLICATIONS (continued)

- 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. PMID: 8510218. PMCID: PMC237779.
- 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. PMID: 1503827.
- Javaherian, K.,\* Langlois, A. J., Schmidt, S., Kaufmann, M., Cates, N., Langedijk, J. P. M., Melen, 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. PMID: 1371358. PMCID: PMC48462.
- 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. PMID: 1316674.
- 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. PMID: 2002545. PMCID: PMC239994.
- 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. PMID: 1705994. PMCID: PMC240043.
- 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. PMID: 2231687.
- 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. PMID: 2231694.
- 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. PMID: 2282986.
- 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. PMID: 2795718. PMCID: PMC251107.

## **PUBLISHED ABSTRACTS AT INTERNATIONAL & NATIONAL CONFERENCES**

- Wooley, D.P., & Corbett, A.M. (2014, October 8). *Detection of Viral Vector Sequences in Animal Excretions*. Oral presentation at the 57<sup>th</sup> Annual Biological Safety Conference, San Diego, CA.
- Wooley, D.P., Weinstein, J., Narayan, P.K.L, Sharma, P., Schaffer, D., and Excoffon, K.J.D.A. (2013, July 20-24). *Targeting of HIV-infected T cells with Novel Adeno-associated virus Variants Generated by Directed Evolution*. Oral presentation at the 2013 Annual Meeting of the American Society for Virology, University Park, PA.
- Wooley, D.P., Weinstein, J., Narayan, P.K.L, Sharma, P., Schaffer, D., and Excoffon, K.J.D.A. (2013, May 15-18). *Development of novel Adeno-associated virus variants targeting HIV-infected T cells*. Oral presentation at the 16<sup>th</sup> Annual Meeting of the American Society of Gene and Cell Therapy, Salt Lake City, UT.
- Wooley, D. P., & Chinnasamy, S. (2011, November 1). *Quantitative PCR assay for detecting viral vector shedding from animals*. Oral presentation at the 54<sup>th</sup> Annual Biological Safety Conference, Anaheim, CA.
- Trefry, J., & Wooley, D. (2011, February 6-10). *Silver nanoparticles inhibit Vaccinia virus infection by preventing viral entry*. Poster presentation at the 9<sup>th</sup> ASM Biodefense and Emerging Diseases Research Meeting, Washington, DC.
- Trefry, J., & Wooley, D. (2010, February 20-24). *Inhibition of Poxvirus Infection with Silver Nanoparticles*. Poster presentation at the 8<sup>th</sup> Annual ASM Biodefense and Emerging Diseases Research Meeting Baltimore, MD.
- 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.

**PUBLISHED ABSTRACTS (continued)**

- 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: Workshop 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 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.
- 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.

**PUBLISHED ABSTRACTS (continued)**

- 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.
- 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.

## **PUBLISHED ABSTRACTS (continued)**

- 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.
- 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.

## **PUBLISHED ABSTRACTS AT LOCAL CONFERENCES**

- Kamel, S., Kotha, P, Wooley, D., and Excoffon K.J.D.A. (2014, April 11-12). *Adeno-associated virus transduction of human CD4+T lymphocytes*. Oral presentation at the Ohio Branch American Society for Microbiology Meeting, Columbus, OH.
- Paluri, S. L. A, Markopoulos M. M., Anders, C.B, Baker, J., Stahler, A., Wooley, D. P., and Pavel, I. E. (2011, September 23). *Comparative cytotoxicity studies of silver nanoparticles and ionic silver in MLO-Y4 and VERO 76 cells*. Poster presented at Ohio Valley Chapter of the Society of Toxicology Annual Fall Meeting, Dayton, OH.
- Trefry, J. C., Monahan, J. L., Weaver, K. M., Meyerhoefer, A. J., Markopolous, M. M., Zachary, Arnold, Z. S., Wooley, D. P. and Ioana E. Pavel. (2010, March 8). *Size Selection and Concentration of Silver Nanoparticles by Tangential Flow Filtration for SERS-based Biosensors*. Poster presentation at the Annual Poster Session of the American Chemical Society Dayton Section, Dayton, OH.

## INVITED LECTURES AND NEWS INTERVIEWS

General Topics: Coronavirus and COVID-19, AIDS, HIV-1, Retroviral Variation and Pathogenesis, Biodefense, Biosafety, Occupational Health, Nanotechnology, Viral Vectors, Gene Therapy

*13th Annual Occupational Health Colloquium*, Alexandria, VA, June 13-14, 2023, Eagleson Institute, Oral presentation: *Novel Genetic Technologies*

Coronavirus Infection: What You Need to Know, January 11, 2022, Wayne High School, Huber Heights, Ohio

Discussion on Coronavirus, Online, November 15, 2021, Wright State University Retirees Association.

Challenges in Risk Assessment for Novel Genetic Technologies, Online, November 10, 2021, Northwest Health Environmental and Laboratory Professionals Group

Coronavirus Seasonal Trends, WHIO TV, Channel 7, Dayton, OH, November 10, 2021

Coronavirus Vaccine: When Will the Miami Valley Be Back to Normal, WHIO TV, Channel 7, Dayton, OH, November 24, 2020

Coronavirus: Next Steps for Astrazeneca After Vaccine Trial Halted, WHIO TV, Channel 7, Dayton, OH, September 9, 2020

Coronavirus: How to Protect Patients in Long-term Facilities, Virtual Healthcare Professional Networking Series, Dayton, OH, May 14, 2020

What to Know About COVID-19 Antibody Testing, Dayton Daily News  
Dayton, OH, May 7, 2020

Reopening Ohio After the COVID-19 Lockdown, Dayton Daily News  
Dayton, OH, May 3, 2020

Coronavirus: What You Need to Know, Wright State Faculty Senate Online Lecture Series  
Dayton, OH, April 9, 2020

Coronavirus and the Weather, WHIO TV, Channel 7  
Dayton, OH, April 3, 2020

Wright State University, Dayton, OH, November 3, 2017  
Department of Neuroscience, Cell Biology, and Physiology

*Facilitating Safe Science: Practical Approaches for IBCs*, St. Augustine, FL, June 4-7, 2017, NIH Office of Science Policy and the Eagleson Institute

Two presentations:

- *Molecular Testing for Viral Vector Sequences in Animal Specimens from Biocontainment*
- *Evaluating Risks When Working with Biohazardous Materials*

*Preventing and Treating Biological Exposures: An Occupational Health Colloquium*, St. Augustine, FL, June 7-9, 2017, Eagleson Inst. and Elizabeth R. Griffin Research Foundation

Three presentations:

- *Non-retroviral Vectors and Occupational Health Considerations*
- *Implementation of the New Lentiviral Vector Medical Guidelines*
- *Using Viral Vectors as Gene Delivery Vehicles*

## INVITED LECTURES AND NEWS INTERVIEWS (continued)

- ABSA International, September 21-25, 2015  
Webinar Series on Viral Vector Technology and Risk Assessment
- Midwest Area Biosafety Network, April 16, 2015  
Webinar on Viral Vector Biosafety in Animals
- Miami University, Oxford, OH, February 25, 2015  
Department of Microbiology
- 56<sup>th</sup> Annual Biological Safety Conference, Kansas City, MO*, October 21-23, 2013  
American Biological Safety Association
- Facilitating Safe and Secure Science: Practical Approaches for IBCs*, Seattle, WA, June 16-19, 2013, NIH Office of Biotechnology Activities and the Eagleson Institute.
- Preventing and Treating Biological Exposures: An Occupational Health Colloquium*, June 19-21, 2013, CDC, Eagleson Institute, and the Elizabeth R. Griffin Research Foundation.
- IBC's in an Evolving Research Landscape Conference*, San Diego, CA, June 12-14, 2011  
NIH Office of Biotechnology Activities and the Eagleson Institute
- Preventing and Treating Biological Exposures: An Occupational Health Colloquium*, San Diego, CA June 15-17, 2011, CDC, Eagleson Institute, and the Elizabeth R. Griffin Research Foundation.
- Viral Vectors as Tools to Enhance Your Research*, Saranac Lake, NY, October 29, 2010, Trudeau Institute
- 53<sup>rd</sup> Annual Biological Safety Conference*, Denver, CO, October 4-6, 2010  
American Biological Safety Association
- Infectious Disease and Hematology and Oncology Research Conference*, November 17, 2009  
VA Medical Center, Dayton, OH
- Battelle National Biodefense Institute, Frederick, MD, August 5, 2009  
National Biodefense Analysis and Countermeasures Center
- Conference on Institutional Biosafety Committees: Promoting Optimal Practice Now and in the Future*, Arlington, VA, June 25, 2009, Invited by the NIH Office of Biotechnology Activities and Eagleson Institute.
- 7<sup>th</sup> Annual Conference: Taking Flight—The Future of Bioscience*, Dayton, OH, April 3, 2009  
Invited by the Ohio Valley Affiliates for Life Sciences
- 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
- Infectious Disease and Hematology and Oncology Research Conference*, October 16, 2007  
VA Medical Center, Dayton, OH.
- University of Chicago, Chicago, IL, March 20, 2007  
Department of Microbiology



**INVITED LECTURES AND NEWS INTERVIEWS (continued)**

- 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
- 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
- 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*

CDC Board of Scientific Counselors	Member (appointed)	2016-present
CDC Poliovirus Containment	Member (appointed)	2020-present
CDC Bio. Agent Contain. Working Group	Chair (appointed)	2017-2020
NIH Recombinant DNA Advisory Cmte.	Member (appointed)	2012-2017
IBC Services	Member (appointed)	2008-present
ABSA Scientific Program Committee	Member (appointed)	2010-present
ABSA Scientific Program Committee	Chair (appointed)	2011-2013
GLRCE Executive Committee	Member (appointed)	2005-2013
NIH/NIAID GLRCE Study Section	Member (appointed)	2005-2013
ABSA Nominating Committee	Member (elected)	2011
Grant Proposal Reviewer	Appointed	Various Years
Journal Article Reviewer	Appointed	Various Years

*Wright State University*

Undergraduate Academic Policies Cmte	Member (appointed)	2023-present
Faculty Budget Priorities Committee	Member (appointed)	2023-present
Graduate Curriculum Committee	Chair (appointed)	2021-present
Graduate Curriculum Committee	Member (appointed)	2019-2021
Graduate Faculty Membership Committee	Member (appointed)	2019-2021
Graduate Academic Policies Committee	Member (appointed)	2019-2021
Faculty Budget Priorities Committee	Member (appointed)	2017-2019
Buildings and Grounds Committee	Chair (appointed)	2017-2019
Parking Appeals Subcommittee	Chair (appointed)	2017-2019
Parking Committee	Member (appointed)	2013-2014
Institutional Biosafety Committee	Chair (appointed)	2007-2010
Institutional Biosafety Committee	Member (appointed)	1998-2007
Lab Stores Advisory Committee (ad hoc)	Member (appointed)	2003-2004
Radiation Safety Committee	Member (appointed)	1996-2001

*School of Medicine*

Promotion and Tenure Committee	Member (elected)	2022-present
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*

M.S. Program in Micro & Immuno	Director (appointed)	2018-present
Promotion and Tenure Committee	Member (appointed)	2020-2023
Steering Committee	Member (elected)	2016-2023
Buildings and Grounds Committee	Member (elected)	2015-2017
Research Advisory Committee	Member (appointed)	2008-2009
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

**SERVICE (continued)***College of Science and Mathematics (continued)*

Academic Mediation Committee	Chair (appointed)	1995-1997
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*Faculty Governance*

Senate Executive Committee (COSM)	Member (appointed)	2018-2022
Senator representing COSM	Member (elected)	2015-2022
AAUP Committee W	Member (appointed)	2007

*Biomedical Sciences*

Biodefense Area Leader	Leader (appointed)	2007-2017
Curriculum Committee	Member (elected/appointed)	'98-00; '10-11
Admissions Committee	Member (elected)	'96-98; '08-10
DVD Committee	Member (appointed)	2007
Academic Policies	Member (elected)	2005-2007
Nominating Committee	Member (elected)	2000-2002

*Department*

Promotion and Tenure Committee	Chair (appointed)	2021-present
NCBP Annual Assessment Subcommittee	Member (appointed)	2019-present
NCBP Activities and Accomplishments	Member (appointed)	2007-2012
ANT Faculty Development Committee	Member (appointed)	2003-2012
NCBP Faculty Search Committee	Chair (appointed)	2007
BMB Diversity Workshop Cmte. (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	Director (appointed)	2018-present
M&I Admissions Committee	Member (appointed)	2004-present

*University of Wisconsin Medical School*

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

Mentor for junior student Kate Riegel, Alter High School, 2021-2022  
 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

- 66<sup>th</sup> Annual Biological Safety Conference, October 16-18, 2023  
*American Biological Safety Association International, Virtual*
- 13<sup>th</sup> Annual Occupational Health Colloquium, Alexandria, VA, June 13-14, 2023,  
Eagleson Institute
- 65<sup>th</sup> Annual Biological Safety Conference, October 14-19, 2022  
*American Biological Safety Association International, Virtual*
- 64<sup>rd</sup> Annual Biological Safety Conference, October 25-27, 2021  
*American Biological Safety Association International, Virtual*
- 63<sup>rd</sup> Annual Biological Safety Conference, November 4-6, 2020  
*American Biological Safety Association International, Virtual*
- 62<sup>st</sup> Annual Biological Safety Conference, November 18-20, 2019  
*American Biological Safety Association International, Birmingham, AL*
- 61<sup>st</sup> Annual Biological Safety Conference, October 15-17, 2018  
*American Biological Safety Association International, Charleston, SC*
- Preventing and Treating Biological Exposures: An Occupational Health Colloquium*, St. Augustine, FL, June 7-9, 2017, CDC, Eagleson Institute, and the Elizabeth R. Griffin Research Foundation
- Gene Editing, CRISPR, and Gene Drives: Biosafety Considerations  
*Webinar, American Biological Safety Association International, 2017*
- Promotion and Tenure Workshop, February 7, 2017  
*Wright State University AAUP*
- 59<sup>th</sup> Annual Biological Safety Conference, October 3-5, 2016  
*American Biological Safety Association International, Grapevine, TX*
- 58<sup>th</sup> Annual Biological Safety Conference, October 12-14, 2015  
*American Biological Safety Association International, Providence, RI*
- 57<sup>th</sup> Annual Biological Safety Conference, October 6-8, 2014  
*American Biological Safety Association, San Diego, CA*
- 56<sup>th</sup> Annual Biological Safety Conference, October 21-23, 2013  
*American Biological Safety Association, Kansas City, MO*
- Preventing and Treating Biological Exposures: An Occupational Health Colloquium*, June 19-21, 2013, CDC, Eagleson Institute, and the Elizabeth R. Griffin Research Foundation
- Facilitating Safe and Secure Science: Practical Approaches for IBCs*, Seattle, WA, June 16-19, 2013, NIH Office of Biotechnology Activities and the Eagleson Institute
- 55<sup>th</sup> Annual Biological Safety Conference, October 22-24, 2012  
*American Biological Safety Association, Orlando, FL*
- 54<sup>th</sup> Annual Biological Safety Conference, October 31-November 2, 2011  
*American Biological Safety Association, Anaheim, CA*
- Preventing and Treating Biological Exposures: An Occupational Health Colloquium*, San Diego, CA June 15-17, 2011, CDC, Eagleson Institute, and the Elizabeth R. Griffin Research Foundation
- IBC's in an Evolving Research Landscape Conference, San Diego, CA, June 12-14, 2011  
*NIH Office of Biotechnology Activities and the Eagleson Institute*

## **PROFESSIONAL DEVELOPMENT (continued)**

High Consequence Livestock, February 2, 2011  
*USDA ARS 1st International Biosafety and Biocontainment Symposium, Baltimore, MD*

BSL-3 Good, Bad, and Ugly, February 2, 2011  
*USDA ARS 1st International Biosafety and Biocontainment Symposium, Baltimore, MD*

Occupational Health and Surveillance and Monitoring in Biological Labs and Animal Facilities, October 2, 2010, *American Biological Safety Association, Denver, CO*

53<sup>rd</sup> Annual Biological Safety Conference, October 4-6, 2010  
*American Biological Safety Association, Denver, CO*

Educating for the Responsible Conduct of Research (RCR): Strategies for Research Institutions, April 8, 2010  
*Public Responsibility in Medicine and Research (PRIMER) Webinar*

52<sup>nd</sup> Annual Biological Safety Conference, October 19-21, 2009  
*American Biological Safety Association, Miami, FL*

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, Reno, NV*

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*

**PROFESSIONAL DEVELOPMENT (continued)**

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

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*