

## CURRICULUM VITAE

MELINDA JOANN WILKERSON

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St. George's University  
School of Veterinary Medicine  
St. George's, True Blue  
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**EDUCATION:** 1994 Ph.D. Veterinary Science, Residency, Clinical and Anatomical Pathology, Microbiology/Pathology, Washington State University, Pullman, WA

1989 D.V.M., M.S. Veterinary Medicine, University of Missouri, Columbia, MO

1982 Medical Technologist, Certified by American Society Clinical Pathology, St. John's School of Medical Technology, Springfield, MO.

1981 B.S., Life Sciences, Missouri State University, Springfield, MO.

1977-1980 Central Missouri State University, Warrensburg, MO

### PROFESSIONAL POSITIONS:

July 2017-present Chair of Pathobiology, School of Veterinary Medicine, St. George's University, Grenada, West Indies

Oct. 2016-present Professor, Dept. Pathobiology, School of Veterinary Medicine, St. George's University, Grenada, West Indies

Oct.1. 2016 Emeritus Professor and Adjunct Professor, CVM, Kansas State University

2012	Promoted to Full Professor, CVM, Kansas State University
1/2011-2014	Coordinator of Clinical Pathology Residency Training Program, CVM, Kansas State University
10/2010-present	Coordinator of Digital Information, Instruction, and Learning
6/07- 6/2010	Interim Associate Dean of Academic Programs, College of Veterinary Medicine, Kansas State University, KS
6/03- present	Associate Professor and Director of Clinical Immunology/ Flow Cytometry Laboratory,
10/96	Assistant Professor Department of Diagnostic Medicine/Pathobiology, CVM, Kansas State University, Manhattan KS
1994-1996	Assistant Professor, Veterinary Anatomical Pathologist; Washington Animal Disease Diagnostic Laboratory, Washington State University, Pullman WA
1990-1994	Veterinary Anatomical Pathology Residency/PhD Program, Washington Animal Disease Diagnostic Laboratory, Washington State University, Pullman WA
1989-1990	Veterinary Clinical Pathology Residency Program, Washington Animal Disease Diagnostic Laboratory, Washington State University, Pullman WA

**AWARDS:** 2008, Outstanding Woman Veterinarian of the Year Award, Association for Women Veterinarians Foundation

2001, Travel fellowship Award K-STATE Center for Basic Cancer Research, \$1,037 to University of Florida, College of Veterinary Medicine for Diagnostic Tools for Evaluation of Hemic Neoplasia.

2000, Travel fellowship Award K-STATE Cancer Center Funded \$1,600 for Advanced DNA Cell Cycle Course by Becton Dickinson at Mansfield, MA.

1999, Big 12 Faculty Fellowship Program: Identifying Alterations of Immune Cell Function Induced by Expression of the Nonstructural Gene NS3 of Bovine Viral Diarrhea Virus \$2500 (University of Nebraska, Sponsor: Ruben Donis).

### **LICENSES AND CERTIFICATION:**

Diplomate of the American College of Veterinary Pathology,  
Anatomical Pathology (1996) & Clinical Pathology (2003)

Certified Becton Dickinson FACScan Key Operator, (1997) San Jose, CA.

DVM license in Missouri (1989 – present)

### **MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:**

American College of Veterinary Pathologist  
American Association of Veterinary Immunologists  
American Association of Veterinary Laboratory Diagnosticians  
American Society of Investigative Pathology  
American Society of Veterinary Clinical Pathologists  
American Veterinary Medical Association  
Sigma Chapter of Phi Kappa Phi

### **REVIEWER FOR PROFESSIONAL JOURNALS**

American Journal of Veterinary Research  
Clinicians Brief  
Clinical Experimental Allergy  
Experimental Hematology  
Journal of Small Animal Practice  
Journal of Veterinary Diagnostic Investigation  
Journal of the American Veterinary Medical Association  
Journal of Veterinary Internal Medicine  
Veterinary Clinical Pathology  
Veterinary Immunology Immunopathology  
Veterinary Pathology

**NATIONAL COMMITTEES/BOARDS:**

- 2011: Advisory Board Veterinary Internet Content Exchange (VetICE)
- 2010: Immediate Past President of the American Society of Veterinary Clinical Pathology
- 2009: President of the American Society of Veterinary Clinical Pathology
- 2008: President Elect of the American Society of Veterinary Clinical Pathology
- 2005- 2010: Executive Board American Society of Veterinary Clinical Pathology
- 2005- 2008: Nominations Committee American Society for Veterinary Clinical Pathologists
- 2004- 2007: Membership Committee American Society for Veterinary Clinical Pathologists
- 2002- 2004: Nominations Committee American Association of Veterinary Immunologists
- 2002- 2006: Editorial board for Veterinary Clinical Pathology

**UNIVERSITY COMMITTEES:**

- |              |   |
|--------------|---|
| 2007-2014    | Phi Kappa Phi Honorary Society  |
| 2011         | Chair of K-STATE Mentoring Awards Committee                                     |
| 2007- 2010   | K-STATE Mentoring Awards Committee  |
| 2010-present | E-Portfolio Task Force  |
| 2007-present | University Assessment Facilitators committee                                    |
| 2010-2010    | Higher Learning Commission Steering committee                                   |
| 2007-2010    | Committee on Policies and Procedures  |
| 2007-present | ISIS Task Force   |
| 2008         | Search Committee for Medical Entomologist                                       |
| 2004-2007    | Graduate Council Member   |
| 2005         | K-STATE Targeted Excellence Grants Committee                                    |
| 2005         | Chair of the Big 12 Faculty Fellowship and Mentoring Awards Selection Committee |

**COLLEGE OF VETERINARY MEDICINE COMMITTEES:**

- |      |                                      |
|------|--------------------------------------|
| 2015 | President of Phi Zeta, Sigma Chapter |
|------|--------------------------------------|

2014	Chair of DMP Immunologist search committee
2011-2014	Coordinator of Clinical Pathology Residency Program
2013	Chair of CVM Curriculum Committee
2012-present	Faculty Advisor for student chapter of LGVMA
2011-present	Academic Standards Committee
2011	Search committee for Teaching Resources Director
2011	Chair of Clinical Pathology Resident Search Committee
2011	Chair of CVM Learning Specialist Search Committee
2009- present	Mentoring Committees for Dr. Higginbottom and Dr Annelise Nguyen
2007- 2015	Phi Zeta Secretary/Treasurer, Sigma Chapter
2005 -present	Executive Committee of Pathobiology Graduate Group
2005	Chair of Toxicology Search Committee
2005	Chair of Academic Standards Committee, K-STATE CVM
2000 -2005	Academic Standards Committee
2004- 2005	Phi Zeta President, Sigma Chapter

## **FORMAL COURSE INSTRUCTION:**

### St. George's University

October 10 – November 15. PTHB Veterinary Clinical Pathology. Clinical Chemistry. Term 3. St. George's University, West Indies, Grenada.

### Kansas State University, College of Veterinary Medicine

Spring 1997-Spring 2016: DMP 705: Principles of Veterinary Immunology. Students include Freshman Veterinary students (110-113), MPH, and graduate students (7-10).

Fall 2015, DMP 878: Theory and Applications of Flow Cytometry, 2 credit hour graduate course in flow cytometry.

Fall 2013, Course-coordinator and Instructor of Immunology of Domestic Animals (DMP 850) (3 credit hr blended course, 45 contact hours, 7 KState students and 3 Olathe students).

Spring 2013. DMP 862. Applied Immunology. 2 credits, Co-Course Instructor (3-contact hours)

Spring Semester 1998- Present: DMP 705 (3 Credit hrs), Course Coordinator, Principles of Veterinary Immunology

Fall 2012. DMP 880. Problems in Flow Cytometry (1 credit). Two students.

Spring 2012 and 2014. Invited to teach 2 and 3 weeks of Clinical Chemistry to veterinary students at St. George's University School of Veterinary Medicine (March 12-23<sup>rd</sup>) 10 hrs of lecture & 6 hrs of lab) for their Clinical Pathology course.

Fall Semester Only, 2000- Present: DMP878 (2 Credit hrs), Course Coordinator of Theory and Applications of Flow Cytometry

Fall Semester Only, 2004- Present: DMP850, lecture 3 hrs, Comparative Immunology

Spring Semesters 2007, 2008, 2009: St. George's University, SVM –PREC 510, Veterinary Immunology, 12 hours of lecture each year

Fall 2006: 4 hour lectures provided to first year medical students at Kansas City University of Medicine and Biosciences, Independence Ave, Kansas City. Topics include: Introduction to Autoimmunity, Immunopathologic Diseases of Muscle, Immunologic Aspects of Rheumatoid Arthritis, Immunologic Aspects of Systemic Lupus Erythematosus

One hour overview of Research or Clinical Applications in Flow Cytometry

Summer 2003, Veterinary Research Scholars Program

Fall 2004, per Dr. Takimoto's request for Biochem 911

Fall 2010, per Dr. Brenner's request for small animal interns/residents

## INFORMAL COURSE INSTRUCTION:

### CLINICAL PATHOLOGY RESIDENT TRAINEES AT K-STATE

		<u>Training/ACVP status</u>	<u>Post training positions</u>
Maria Bell	2016-	first year resident	
Brandy Kastal	2016-	first year resident	
Mark Morton	2015-2018	second year resident	
Adi Wasserkrug Naor	2013-2016	ACVP Diplomate	Kansas State VDL
Rachel Holicky	2013-2016	Finished Residency	Kansas State VDL
Mandy Meindel	2011-2014	ACVP Diplomate	Covance, WI
Kate Pennick	2010-2013	ACVP Diplomate	IDEXX, Chicago
Don Petersen	2009-2011	ACVP Diplomate	Abaxis Labs
Bradley Galgut	2007-2010	ACVP Diplomate	Gribbles Vet. Path.Aust.
Casey Wood	2005-2008	ACVP Diplomate	IDEXX Labs
Merhdad Ameri	2004-2008	ACVP Diplomate	Glaxco Smith Kline
Roberta Di Terlizzi	2004-2007	ACVP Diplomate	Independent
Tanya Grondin	2004-2007	ACVP Diplomate	Practice
Balazs Szladovitis	2003-2006	ACVP Diplomate	Royal Veterinary College
Karen Dolce	2002-2005	ACVP Diplomate	Independent lab

### VRSP

Kelley Black (Second year veterinary student from Western Health University) summer 2016

Chantal Girard (Second year veterinary student Kansas State) summer 2015  
Bruno Melo Teixeira (Third year veterinary student from Brazil) summer 2013

**GRADUATE STUDENT TRAINING:**

*Major Professor for:*

2015-present: Heidi Yonky, MPH student

2014-present: Shaila Jafarian. MPH Student

2015-present: Stephanie Campbell, MPH Student

2015-2016: Taylor Shulse, MPH Student, defended 2016

2014-2016: Kelley Black, MS Student, Manuscript submitted. Defended 2016

2012-2015: Caitlin Timmins. MPH Student, completed spring 2015

2011-2013: Allison Jordan Bryan. MS BRITE Student. Co-Major Professor  
Immune responses in healthy foals following vaccination: Characterization of immune activation in first year of life, when vaccination protocol is initiated at 90 days of age.

2005: Susan Moore, completed MS

Thesis: Measurement of the immune response to rabies vaccination using a novel and traditional assays

2005: Kekha Kempegowda, completed MS

Thesis: Development and evaluation of a multiplex assay to measure bovine IgG1 and IgG2 using microspheres and flow cytometry

2004: Clare Hyatt, completed MS

Thesis: The effects of bovine viral diarrhea virus on cellular proliferation and survival

2003: Shannon Swist, completed MS

Thesis: Immunomodulation of the bovine immune system by salivary gland extracts and proteins of the stable fly *Stomoxys calcitrans* (L.)

2000: Marty Gilmore, completed MS

Thesis: Bovine viral diarrhea virus induced apoptosis of cultured bovine cells and altered expression of mitochondrial proteins Bcl-2 and Bax

*On Graduate Committee:*

**Current Students**

2015: Rachel Rusk, MS student, Jodi McGill, major professor

2015: Mariana Guerra, PhD student, Jodi McGill, major professor

2015: Katlin Haukos, MS student, Elizabeth Davis, major professor

**Completed**

2013-2016: Anna Pees, MPH, Susan Moore, major professor, completed July 2016

2014-2016: Jolene Carlson, PhD, Steve Higgs, major professor, completed Sept. 2016  
2015: Katie Delph, MS student, Elizabeth Davis, major professor, completed April 2016  
2015: Giselle Cino, PhD, Bob Rowland, major professor, completed Jan 2016  
2014-2015: Priscilla de Los Santa, Beth Montelone, major professor, MPH  
2011-2015: Susan Moore, Elizabeth Davis, major professor, PhD, completed Spring 2015  
2014: Hayley Collins, Michael Cates, major professor, completed MPH Fall 2014  
2014: Kristina Bigelow, Annelise Nguyen, major professor, completed MS  
2014: Jessica Bradford, committee member, completed 2014  
2013: Sara Coleman, Michael Cates, major professor, completed MPH  
2013: Marai Alhaadi, Sanjeev Narayanan, major professor, completed MS  
2012: Vijay Indukuri, Ramon Ganta, major professor, completed MS  
2011-2013: Stephanie Shishido, Annelise Nguyen, major professor, PhD  
2011-2013: Allison Bryan (BRITE student, Beth Davis co-major professor, MS  
2011-present MPH graduate faculty mentor  
2011: Maria Sardoy, DCS, Maria Ferrer, major professor, completed MS  
2009: Chakravarthy Katragadda, DMP Roman R. Ganta, major professor, completed MS  
2008: Yuwen Zhang, A&P, Elizabeth Davis, major professor, completed PhD  
2007: Sruti Sreemama, DCS, Mike Sanderson, major professor, completed MS  
2006: Tammy Epp, A&P, O'Tool, major professor, completed PhD  
2005: Sarah Schul, DMP, Roman R. Ganta, major professor, completed MS  
2003: Jessica Green, DMP, completed PhD  
2002: Chaunmin Cheng, DMP, completed MS  
2002: Alisha Colsen, DMP completed MS  
2002: Samir Zaki El-Zarkouny, Animal Science/Industry, completed PhD  
1999: Heidah Fatey, Division of Biology, completed PhD  
1997: Li Hou, DMP, Harish Minocha, major professor, completed MS

*Graduate Council Representative for:*

2009-2011: Tingting Liu, Chemistry, PhD, major professor Christopher Levy

**RESEARCH:**

**GRANTS Submitted:**

Vector-Borne Disease Research Training in the Caribbean. NIH Fogarty Grant. St. George's University. Kansas State University, University of Davis, California. \$1,065,485. Not Funded

**GRANTS FUNDED:**

**Funded Grants:**

**M.J. Wilkerson**, A. Alhassan, Arno H. Werners, Catherine Werners-Butler, Kathy Gibson (SGU), Graeme Stratton (SGU), R. Ganta. Tick-borne rickettsial prevalence and disease status in dogs, ruminants, and ticks in Grenada



**M.J. Wilkerson**, D.M. Stone, S. Cheetham-Brow, K. Gibson, M. Lanza-Perea. R. Ganta, C Yearwood. Validation of multiplex high throughput and serological assays for surveillance and diagnostic identification of epidemic and endemic of vector borne pathogens of regional importance in animals and humans in Grenada and the greater Caribbean. One Health Initiative Proposal. \$124,000. 2016-2018. Windward Islands Research.

D.M. Stone, K. Gibson, T. Patterson, M. Lanza-Perea. **M.J. Wilkerson**, R. Ganta. Detection of antibodies to and antigens of canine tick-borne pathogens in dogs in Grenada. USRI. St. George's University. \$5620.

K. Harkin, **M. Wilkerson**. Evaluation of the therapeutic efficacy and changes in cytokines in cerebrospinal fluid and plasma in dogs with canine distemper encephalitis treated with intrathecal modified-live Newcastle Disease Virus vaccine. Research Grant. \$36,000. (\$10,000 to Immunology).

**Wilkerson MJ** (PI), Rowland RR (Co-PI), Dekkers JCM (Co-PI). The Contribution of Adaptive Immunity to Porcine Reproductive and Respiratory Syndrome Virus Infection. National Pork Board. \$97,675.

**Wilkerson MJ**, S. Moore, E. Davis, C. Blevins. Detection of Antibodies to Vaccine and Field Strains of Rabies Virus in Horses by a Multiplex Microsphere-Based Assay. MCAT. \$13,980.

E Davis EG, Ewen C, Boysen C, Hankins K, **Wilkerson MJ**. Evaluation of immunologic response following oral vaccination with a USDA approved, attenuated, live, *Streptococcus equi* vaccine. 2013 Submitted to Zoetis. \$39,620.

W. Ma, J. Richt, Wilkerson MJ (5% as a consultant). FLUPIG. Pathogenesis and transmission of influenza in pigs. EU FP7 Influenza-2010, Cooperation Work Program: Food, Agriculture and Fisheries. \$500,000.

Davis EG, Koopman T, **Wilkerson MJ**, Hankins K. Immune responses in healthy adult horses following vaccination: Comparison of three commercial multivalent vaccines for induction of immune responsiveness. \$160,866. Pfizer-animal Health, Inc. Aug. 2011-2012.

2012: Effect of sperm-bound anti-sperm antibodies on function of bovine spermatozoa. Ferrer MS, Anderson D, George A, Wilkerson M. Select Sires Grant Application. \$16,214 (Flow cytometry budget \$2000).

2011. Student Governing Association Student Centered Tuition Enhancement Application. **Wilkerson MJ**. Creating an Academy of Learning Center, \$26,823.

2010. CVM Intramural Instrumentation Grant Program. **Wilkerson MJ**, Koopman T. Flow Cytometer with Multiplex Platform. CVM Intramural Grant Program. \$40,000.

2010-2012. Davis EG, Koopman T, **Wilkerson MJ**, Hankins K. Immune responses in healthy foals following vaccination: Characterization of immune activation in first year of life, when vaccination protocol is initiated at 90 days of age. 2010-2012: Pfizer-Animal Health, Inc. \$216,636.

2009. Pfizer-Animal Health, Inc. Davis EG, Koopman T, **Wilkerson MJ**, Tuttle T, Hankins K. Immune responses in foals following vaccination: effect of an adjuvant to overcome maternal antibody blocking. \$102,297.

2008-2009: Dept. Clinical Sciences. PI: Higginbottom, ML, Co PI: McCaw D, Pohlman L, **Wilkerson MJ**. Flow cytometric analysis of lymphocytes in naturally occurring canine lymphomas. \$2,000.

2008 - 2009: Fort Dodge Animal Health. PI: **Wilkerson MJ**, Co-PI: Dryden M, Bagladi-Swanson M. Testing a vaccine as a preventative or therapeutic in a canine model of flea allergic dermatitis. \$17,000.

2008: Fort Dodge Animal Health. PI: **Wilkerson MJ**, Co-PI: Dryden M, Bagladi-Swanson M. Testing a vaccine as a preventative or therapeutic in a canine model of flea allergic dermatitis. \$24,794.

2005- 2008: Fort Dodge Animal Health. PI: **Wilkerson MJ**, Co- PI: Dryden M, Bagladi-Swanson M. Testing a vaccine as a preventative or therapeutic in a canine model of flea allergic dermatitis. \$112,416.

2006: Deans Grant. PI: **Wilkerson MJ**, Co-PI: Stockham SL, Klimek J, Patton K. Research to Improve Professional Education (RIPE). Testing Audience Response Systems in the Classroom to Improve Student Interaction. \$13,800.

2006: K-INBRE. PI: Fleming S, Co-PI: Wyatt C, **Wilkerson MJ**. Flow cytometry laboratory support, TurboSort Option for high speed sorting. \$39,000.

2005-2007: Fort Dodge Animal Health. Davis EG, Rush B, Wilkerson MJ. Characterization of immune responses in healthy horses and steers following adjuvant administration. \$194,528.

2004: Career Enhancement Award, NSF ADVANCE. PI: **Wilkerson MJ**, Rush, B., Stockham, S. Development and validation of a microsphere flow cytometry method to determine serum IgG subclass concentration in calves for prediction of failure of passive transfer, \$15,000.

2004: Dean's Award. PI: **Wilkerson MJ**. Co-PI: Mahabadi A, Zurek L., Broce A., Kanost M. Modulation of bovine immune and hemostatic responses by stable fly proteins. \$14,590.

2003-2005: American Medical Veterinary Foundation. PI: **Wilkerson, MJ.**, Co-PIs: Moore, L., Gaughan K. Davis R, Lewis R, Nachreiner RF, Kapil S, HogenEsch H, Becker K, Manobla D, Carsten R. Identifying Adverse Responses to Veterinary Vaccines in Dogs: A Multi-Center Study. \$75,000.

2002 – 2003: Nowartis Animal Health. PI: Dryden M, Co-PI: **Wilkerson, MJ**, Bagladi-Swanson. Evaluation of the efficacy of lufenuron-nitenpyram and imidacloprid to control Flea Allergy Dermatitis and Flea Populations in a simulated home environment study. \$68,000.

2002 – 2003: Kansas Racing Commission. PI: Garrett L , Co-PI: **Wilkerson MJ**. Assessment of Platelet Counts and Platelet-Bound Antibody in Greyhounds. \$9,636.

2002-2003: Great Plains Diabetes Research. PI: Schermerhorn T, Co-PI: **Wilkerson MJ**. Flow Cytometric Analysis of the Association of SNARE Proteins and Lipid Rafts in Pancreatic Beta Cells. \$8,425.

2002 – 2007: 5 year action plan AESCES. PI: Oehme F, Co-PI: Fenwick B, Mosier D, **Wilkerson MJ**. Role of Agricultural Chemical Exposure in Reducing Livestock Immunity.

2001- 2004: Agriculture Experimental Station Research and Cooperative Extension Service. PI: Ganta, RR, Co-PI: **Wilkerson MJ**, Chapes, SK. Modulation of Host Immune Response by Tick Feeding and Pathogen Transmission, a Model Study. \$48,000.

2003 - 2008: NIH R15. PI: Ganta, RR, Co-PI: **Wilkerson MJ**, Chapes SK. Cellular Immunity of Ehrlichia chaffeensis. \$352,000.

2000-2003: Agricultural Experimental Station and Cooperative Extension Service. PI: Kanost, MR., Co-PI: Broce, AB, **Wilkerson, MJ**. Modulation of bovine hemostasis and immune responses by stable fly saliva. \$10,000.

2002: Student Cancer Research Award. PI: **Wilkerson, MJ**. Sponsored Joyce Meyer. Development of a flow cytometry based microsphere assay to detect antibodies to histones in dogs with systemic lupus erythematosus. \$1,000.

2002: Pfizer. **Wilkerson, MJ**, Dryden, M, Bagladi-Swanson M. Continuation of a Canine Model of Flea Allergic Dermatitis \$17,315.

2001-2002: Pfizer. **Wilkerson, MJ**, Dryden, M, Bagladi-Swanson M. Defining a Canine Model of Flea Allergic Dermatitis. \$86,000.

2001-2002: Dean's Fund. **Wilkerson, MJ**, Ganta RR. Evaluation of Immune Responses to a DNA Vaccine against Ehrlichia canis in Greyhounds. \$5,000.

2000: Kansas State University Center for Basic Cancer Research. PI: **Wilkerson, MJ**. Sponsored Megan Murphy. Alterations in Actin Induced by Bovine viral Diarrhea Virus. \$1,000.

1999-2001. American Animal Hospital Association. PI: Harkin, K, Co-PI: **Wilkerson, MJ**. Evaluation of azathioprine therapy for perianal fistula in German shepherd dogs. \$14,929.

1999. 3M Animal Care Products. Rush BR, Thomsen MM, **Wilkerson MJ**. Pulmonary immune function after administration of beclomethasone dipropionate. \$6,880.

1999-2000: Dean's Fund Research Project. College of Veterinary Medicine. Kansas State University. **Wilkerson MJ**. BVD-virus Induced Alterations in Immune Cell Survival and Proliferation. \$5,000.

1999: Kansas State University Center for Basic Cancer Research. PI: **Wilkerson, MJ**. Sponsored Debra Conchola. Alterations in Immune Cell Cycle Induced by BVD Virus Infection. \$1,000.

1999: Dean's Fund Research Project. PI: **Wilkerson, MJ**. Co-PI: Basaraba,R. Effects of Bovine Virus Diarrhea Virus Infected Lymphocytes on Macrophage Function and Immunoregulatory Cytokine Production. \$5,000.

1999. Bayer AG Animal Health. PI: Rush, B.R, Co-PI: Blecha, F., **Wilkerson, MJ**, Davis, E.G. and Flamino, F.B.F. Characterization of Peripheral Blood and Pulmonary Leukocyte Function in Foals. \$85,264.

1998-2001: Kansas State Agriculture Experimental Station Research Funds, Section 1433. **Wilkerson MJ**. Mechanisms of Immune Suppression Induced by Bovine Viral Diarrhea Virus \$48,000.

1998: University Small Research Grant Awards, Office of Research and Grants, Kansas State University. PI: **Wilkerson, MJ**. Bovine Virus Diarrhea Virus Induced Mechanisms of Immune Suppression \$2,400.

1998: Cancer Student Research Award Proposal. Center for Basic Cancer Research at Kansas State University. PI: Wilkerson, MJ. Sponsored Nathan Strankmark, Sensitivity of Cell Cycle Inhibitors on Lymphomas from Domestic Animals. \$1000.

1998. Ansley and Associates. PI: Rush, BR., Co-PI: Flaminio, MJBF., Davis, EG., **Wilkerson, MJ**. Immunologic Response to Intramuscular Administration of Caprine Serum Fraction. \$10,000.

1997: Sloan Mentoring Fellowship Grant. Office of the Provost at Kansas State University. PI: **Wilkerson, MJ**. The role of monokines in chronic lentivirus-induced arthritis. \$6,000.

### **Contracts/Flow Cytometry Service Projects**

2011: PI. L. Maxwell, Cytokine and recall immune responses to Herpes virus infected horses. Oklahoma State University, \$3000.

2009: Midwest Veterinary Services, Inc. Oakland, NE. Monitoring changes in T cell subsets in pigs exposed to an experimental compound. PI: Kelly Lechtenberg. \$900.

2007 - 2010: USDA NRI. PI: S. Chowdhury, Consultant: **MJ Wilkerson**. Regulation of pathogenicity and immunogenicity by BHV-1 envelope glycoproteins gM/gN. \$375,000.

2006: Sanofi-Aventis AVE8488: 6-month oral toxicity study in dogs with a 6-week recovery period. PI: Raquel M. Walton, Melinda J. Wilkerson. \$3,000.

2004: Texas A&, N. Solvis. Hagaard Davidson and McGee. Immune subsets and activation status predicts immune compromise in foals predisposed to respiratory infections. PI. Noah Cohen, \$4,480.

2004: Animal Sciences and Industry. Immune function in foals delivered by mares supplemented with omega-3-fatty acids. PIs. E. Minton, E. Davis, Dept. Vet. Clinical Sciences. \$3,500.

2004: Duration of shedding of E. coli 0H157 in immunosuppressed calves. PI. M. Sanderson, TG Nagajara. \$1500.

2001: Hills Pet Nutrition, Topeka, KS. and Animal Science & Industry. The Effects of Nutritional Parameters on CD4 and CD8 cells in Swine. \$6,000.

1999: Bruce Car & Sherryann West. Development of an Assay to Detect Platelet Bound Immunoglobulin in Dogs. \$1000.

1999: Kansas State University Teaching/Research Horse Unit & Animal Sciences and Industry. Effects of Dietary Methyl-Sulfur-Methane on Neutrophil Phagocytosis-Oxidative Burst Activity in Horses. Raub R, \$4,000.

1998: Southern Research (Division of Safety Assessment, Study Protocol 9343.01.01) and National Cancer Institute (Division of Cancer Prevention and Control). Thirteen-Week Oral Toxicity Study of p-XSC in Dogs Developing Platelet Associated IgG. Page, J. Fulton, R. Chang, G. \$6,600.

### **GRANTS SUBMITTED AND NOT FUNDED:**

G. Conrad. Fibroblast Differentiation During Eye Development. NIH EY000852-37. Request for renewal. 2013. Collaboration involving flow cytometry and cell sorting.

2012. **Wilkerson, MJ**, Garwick C, Hafen, M, Klimek J, KuKanich B. Assessing the Effects of Proactive and Intervention Learning Strategies on Student Learning and Academic Performance in First and Second Year Veterinary Students. Research to improve professional education, Requested \$10,000.

2011. **Wilkerson MJ**, Cates M, Hafen M. Creating an academy of learning and instruction to improve student learning and faculty instruction in Food Safety and Population Medicine, USDA Higher Education Challenge Grant, \$150,000.

2011. **Wilkerson MJ**. Supporting an Academy of Learning and Instruction. Research to Improve Professional Education. \$15,000.

2004. PI: Wilkerson MJ, Kanost M, Zurek L, Broce A. Targeting salivary proteins as vaccine candidates against stable fly feeding and fecundity. NRICGP USDA. Arthropod and Nematode Gateways to Genomics. 51.3. Requested \$495,284.

2003. PI: Wilkerson MJ, Chun R, Garrett L, Avery A, Breen M, Barber L. Defining prognostic indicators of canine lymphoma; A multicenter study. Morris Animal Foundation Full Proposal, DO3CA-107. \$414,762.

2003. PI: Wilkerson MJ, Ganta RR, Meinkoth JH. Multiplex flow cytometry assay to screen for tick borne pathogens in dogs. Morris Animal Foundation Full Proposal, DO3CA-108. \$65,132

2003: PI: Wilkerson MJ, Kanost M, Zurek L, Broce A. Targeting salivary proteins of the stable fly (*Stomoxys calcitrans*) as vaccine candidates for alternative methods of control. NRICGP USDA. Entomology and Nematology. Oct 30. 2002. \$300,000. 10/1/03 – 10/1/06. Score 150, priority Medium.

2003. PI: Wilkerson, MJ and Ganta R.R. Development and Standardization of a Multiplex Flow Cytometric Assay to Screen for Tick Borne Pathogens (*Ehrlichia canis*, *Ehrlichia chaffeensis*, *Babesia gibsoni*, and *Rickettsia rickettsii*) in Dogs. Canine Health Full-proposal requested. \$54,853.

2002: Pfizer. Wilkerson, MJ, Dryden, M, Bagladi-Swanson, M. Evaluation of the efficacy of a peptide vaccine designed to ameliorate signs of dermatitis in flea-allergic dogs. Pfizer. \$80,000.

2000 – 2001: AKC Canine Health. Wilkerson, MJ, Ganta RR. Evaluation of Immune Responses to a DNA Vaccine against *Ehrlichia canis* in Greyhounds. Requested \$70,000. Pre-proposal accepted Nov. 2000. Full proposal, July 2001.

2001: RO1 NIH. Ganta, RR., Chapes, SK., Wilkerson, MJ. Molecular Basis for Persistent Ehrlichial Infections. \$1,032,125.

2001: National Institutes of Health consortium grant. Phillips, KE. Novel Flow Cytometric Methods to Measure Immunotoxicity. PAR-01003, \$500,000. Requested \$89,000 for K-State

2000: Wilkerson, MJ, Ganta RR. Evaluation of Immune Responses to a DNA Vaccine against Ehrlichia canis in Greyhounds. Morris Animal Health Preposal. \$99,014.

2000: Merial Animal Health. Wilkerson MJ, Dryden M, Bagladi-Swanson M. Effects of Fipronil on Flea Allergic Dermatitis in Cats Exposed to Feeding Fleas. \$58, 817.

2000: PAR -00-031 NCRR NIH Shared Instrumentation Program. Wilkerson, MJ. Cell Sorter and Flow Cytometer Instrumentation. \$500,000.

2000: Kansas Racing & Gaming Commission. Wilkerson, MJ, Ganta RR. Evaluation of Immune Responses to a DNA Vaccine against Ehrlichia canis in Greyhounds. \$32,169.

2000: Bayer Corporation Agricultural Division, Animal Health. Rush, B., Davis, EG, Wilkerson, MJ. Efficacy of a nonspecific immunostimulant, inactivated parapoxvirus ovis, to reduce respiratory disease in yearling horses stressed by long distance transportation. \$130,000.

1999. American Association of Bovine Practitioner Research Assistantship. Gilmore, M., Wilkerson, MJ. Investigation of Mechanisms of Bovine Viral Diarrhea Virus-Induced Alteration in Lymphocyte Cell Growth. \$10,000.

2002. USDA NRICGP New Investigator Award. Wilkerson, MJ. Alteration of Immune Cell Function and Cytokine Expression by BVD virus and p80. \$255,085.

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Flow Cytometric Analysis of Platelet Associated IgG in Dogs. Kansas State University College of Veterinary Medicine June Conference, June 10, 1998 and North Central College of Veterinary Laboratory Diagnosticians Meeting June 17, 1998.

Flow Cytometric Measurement of Reticulated Platelets in Dogs. Kansas State University College of Veterinary Medicine June Conference, North Central College of Veterinary Laboratory Diagnosticians Meeting June 17, 1998.

## **PRESENTATIONS TO CVM and UNIVERSITY:**

Modulation of bovine immune responses by antigen-5, a salivary gland protein of Stomoxys calcitrans. Department of Entomology, Kansas State University, March 18, 2005.

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Teixeira B.M., Ewen C.L., Knights K, Moore S.M., Davis E. G. Wilkerson M.J. Detection of humoral and lymphocyte responses in horses vaccinated against rabies. Michigan State University. Aug. 2013.

Ameri M, Wilkerson MJ, Stockham SL, Vernau W, Santoro S. Nonepitheliotropic Cutaneous B cell Lymphoma in a Dog. American Association of Veterinary Diagnostic Laboratories. Minneapolis, MN. October 2006.

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Brown E.M., Wilkerson MJ., Frimberger A., Barber L.G., Azuma C. Effects of low-dose total body irradiation in the treatment of spontaneous canine. ACVR Annual Scientific Meeting, Chicago IL, December 2 – 6, 2003.

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AA Moravec, GP Rupp, MJ Wilkerson, PJ Chenoweth, Assessment of the SYBR-14/Propidium Iodide Staining Method Using Flow Cytometry of Extended, Chilled Bovine Sperm, NIH Summer Research Program Symposium, Manhattan, KS, August 1999.

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A.A. Moravec, G.P. Rupp, MJ Wilkerson, P.J. Chenoweth, Assessment of Flow Cytometry and Methods Using SYBR-14/Propidium Iodide Fluorochrome Stain With Extended, Chilled Semen From Range-Type Beef Bulls, Kansas State University Phi Zeta Research Day Abstracts, Manhattan, KS, March 2000.

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#### **OTHER SCHOLARLY ACTIVITIES:**

Cyto 2013-XXVIII Congress of the International Society for Advancement of Cytometry. San Diego, CA. May 19-May 22.

2012 Veterinary Education Summer Symposium, July 26-28. Colorado State University, Fort Collins, CO.

2012 Great Plains Analytical Flow Cytometry Association meeting, September 7-8<sup>th</sup>. Stowers Institute, Kansas City, MO.

2012 ACVP/ASVCP Concurrent Annual Meeting, Seattle, WA Dec. 1-5<sup>th</sup>.

2010: Attended 11<sup>th</sup> Annual Conference Case Study Teaching in Science. The National Center for Case Study Teaching. Buffalo State University of New York, Buffalo, NY. Sept. 24-25, 2010.

2010: Attended the 5<sup>th</sup> Annual Axio Learning Community Conference. K-State, Manhattan, KS. Sept. 29-30<sup>th</sup>, 2010.

2010: Attended the AAVMC Veterinary Educators Collaborative Fall Symposium, Knoxville, TN. Oct. 15-16, 2010.

2010: Attended the 3<sup>rd</sup> Annual Great Plains Analytical Cytometry Association, Creighton Medical School. Omaha, NE, Oct. 8-9<sup>th</sup>, 2010.

2010: Attended the 61<sup>st</sup> Annual ACVP and 45<sup>th</sup> Annual ASVCP Joint meeting, Baltimore, MD. Oct. 28 – Nov.2, 2010.

2010: Attended the The Center of Academic Development. Supplemental Instructor Supervisor Training. University Missouri Kansas City, Kansas City, MO. Nov. 7-9<sup>th</sup>, 2010.

2009: Attended the ASVCP/ACVP Annual Meeting in Monterey, CA  
President of ASVCP

2009: Attended the AAVMC Annual Meeting in Washington DC.

2008: Attended the ACVIM Annual Meeting in San Antonio, TX  
Moderated the ASVCP Scientific Sessions

2008: Attended the ACVP/ASVCP Annual Meeting in San Antonio, TX  
President Elect of ASVCP

2008: Attended the AVMA/AAVMC Summer Meeting in New Orleans

2008: Attended the AAVMC Annual Meeting in Washington DC

2007: Attended the Dean's Forum, Banfield Education Symposium, Portland, OR

2007: Attended the NAVCA Conference at the University of Guelph, Canada

2007: Attended the ACVP/ASVCP Annual Meeting in Savannah, GA  
Second year Executive Board Member to ASVCP  
Moderated the ASVCP Case Review Session

2006: James R. Coffman Leadership Institute

2006: Attended the ACVP Annual Meeting in Tucson, AR

2005: Attended the ACVP/ASVCP Annual Meeting in Boston, MA  
First year Executive Board Member to ASVCP

2004: Attended ACVP/ASVCP meeting in Orlando, FL

2005: NSF ADVANCE Leadership Institute for Senior Women Faculty at UMKC, 2005: Midwest Women in Medicine & Science Conference, Kansas City, MO.

2003: Invited to participate in Genomic Applications to Equine Immunity, A Havenmeyer Foundation Workshop, June 19-22, 2003, Ithaca, New York.

2002: Attended the ACVP/ASVCP Annual Meeting in New Orleans, LA

2000: Attended the ACVP/ASVCP Annual Meeting in Amelia Island, FL

1999: Attended the ACVP/ASVCP Annual Meeting in Chicago, MO.

1998: Attended the ACVP/ASVCP Annual Meeting in St. Louis, MO.

### Directed Service Activities

#### **2006 – Present: Director of Clinical Immunology/Flow Cytometry Multiuser Facility**

<http://www.vet.ksu.edu/depts/dmp/service/immunology/index.htm>

The flow cytometer is a multi-user facility available to the basic and applied research communities at the K-State campus. Interpret and consult with veterinarians on clinical immunology/flow cytometry case submissions (10 – 25 cases/month, ~250 – 275 cases per year)

#### **2004- 2005: Chief Section Head of Serology, Kansas State Diagnostic Laboratory**

### Supervisory Responsibilities

Wilma Shuman	Microbiologist III and Certified FACScan operator	1996-2005
Tammy Koopman	Medical Technologist/Certified FACS operator	2002-2009
Sylvia Osborn	Technologist, Serology laboratory	2004- 2005
Pam Pace	Technologist, Serology laboratory	2004- 2005
Student Workers	Joyce Meyer, MacKenzie Ostmeyer, Nora Springer, Nora Zacharis, Renee Wulschelger, Colleen Moore	2001- 2011
Mehrdad Ameri	Research Associate	2005- 2007

Cinzia Mastrorilli    Research Associate  
Anushka George    Research Assistant

2007- 2008

2008- 2009

**Anatomical/Clinical Pathology biopsy/cytology service (20-25%)**

1998- Present



## Administration

Interim Associate Dean of Academic Programs June 2007 – June 2010

### Responsibilities

Facilitate Student Tablet PC program

Facilitate survey of freshmen orientation

Implement new student/faculty handbook policies

Guidelines for student representatives of commercial companies

Guidelines for student officers of student clubs

Guidelines for medical leave/withdrawal

Facilitate Fall Teaching Awards, Student Scholarships, Norden Teaching Award nominations, and support letters for faculty applying for the national Norden Teaching Award

Deal with Student issues on a daily basis as they relate to academic progress and progression, classroom environment, encourage wellness and proper support for physical and mental conditions, facilitate communications between students and faculty and Dept. Heads regarding student/classroom issues, facilitate academic dismissals, medical leave, and reinstatement

Attend Meetings

Banfield Education Symposium

NAVC

AAVMC

AVMA

- ▶ Met monthly with the CaTS/DISC group to discuss issues in implementing and managing the TabletPC and paperless curriculum initiative, Orientation week schedules and classroom technology issues. These meetings have been very helpful in opening up communications among the two units and in providing a wider understanding of issues and in how to solve them. These units are composed of many talented very dedicated people that have a common goal to service the students and faculty to best facilitate the operation of the paperless curriculum.
- ▶ Facilitated communications about ISIS training sessions from main campus to the administrative staff in each Department and the Dean's Office of the CVM. The majority of DVM courses in the first 3 years are now on KSOL.
- ▶ Attend monthly ISIS task force and CAPP meetings as often as I can based on my schedule. These meetings keep me in the loop regarding changes on main campus that affect the way we operate at the CVM. Graduation applications are now submitted online. Discussions of midterm grades and access to unofficial transcripts have been discussed as possible reports for the CVM. Donna Springer and I can print Academic histories of our DVM students from ISIS.
- ▶ Supervise and evaluate Donna Springer, Theresa Frazier, and Gayle Willard

- ▶ Student program administration
  - ▶ Coordinate DVM 700, Veterinary Orientation
  - ▶ Invite speakers and students for presentations
  - ▶ *ex officio* member of the Student Faculty Affairs Committee
  - ▶ *ex officio* member of the Academic Standards and Readmissions Committee
  - ▶ *ex officio* member of the Curriculum Committee
  - ▶ *ex officio* member of the Awards and Scholarships Committee and facilitator of the annual Senior Honors Banquet
  - ▶ *ex officio* on the Web Advisory Committee – met monthly
  - ▶ *Ex officio* on the Library Committee
  - ▶ Interact with Disability Support Services to facilitate accommodations for students with Learning disabilities or other issues related to classroom learning, examinations
  - ▶ Sign and approve student/company activities in CVM
  - ▶ Sign and approve all documents submitted to Dean's office for proof of attendance at CVM for loan wavers, insurance, AAVSB (PAVE), outside scholarships, new employment of past alumni
  - ▶ Maintain permanent academic student records
  - ▶ Consulted with veterinary students regularly regarding academic and personal issues, facilitate withdrawals, dismissals, and reinstatement
  - ▶ Facilitate the case module project with faculty and Odyssey software
  - ▶ Communicated and met with University Attorney's Office regarding all student/academic policies issues
  - ▶ Facilitate regular revision of Student/Faculty handbook policies and student information
  - ▶ Attended events at the American Royal for Veterinary Scholars and sophomore students
  - ▶ Facilitate Telefund activity for internal scholarship donations to alumni
- ▶ University and National Curriculum Assessment Responsibilities
  - ▶ Completed the Program Review document for the College of Veterinary Medicine Professional program for the Kansas Board of Regents review
  - ▶ Completed yearly AVMA COE Interim Annual Reports
  - ▶ Completed yearly AAVMC Comparative Data Report
  - ▶ Maintain and disseminate NAVLE reports to faculty
  - ▶ Completed the student/curriculum/assessment sections of the AVMA COE Accreditation Report for the AVMA COE site visit scheduled for April 2010