June 2017

CURRICULUM VITAE

A. Paige Adams, D.V.M., Ph.D.

NAME Alison Paige Adams

PRESENT POSITION AND ADDRESS
August 4, 2013-present

Research Assistant Professor

Kansas State University
22201 W. Innovation Dr.
Olathe, KS 66061
Office: (913) 541-1220
Direct: (913) 307-7367
Fax: (913) 541-1488
E-mail: apadams@k-state.edu

BIOGRAPHICAL

Place of Birth: Bryan, Texas

Citizenship: United States

Home Address: 1813 N. 156th Street
Basehor, KS 66007
Cell: (409) 392-7922

EDUCATION

Degree	Month, Year	Scientific Field	Institution and Location
Ph.D.	May, 2004	Immunology	Cornell University, Ithaca, New York
D.V.M.	May, 1993	Veterinary Medicine	Texas A&M University, College Station, Texas
B.S.	December, 1990	Veterinary Science	Texas A&M University, College Station, Texas

BOARD CERTIFICATION

December 15, 1992	National Board Examination
December 15, 1992	Clinical Competency Test
April 15, 1993	Texas State Board of Veterinary Medical Examiners

LICENSURE INFORMATION

May 15, 1993	Texas Veterinary License, License #7306 Expires June 30, 2018 (annual renewal; 17 hours of CE/year)

PROFESSIONAL EXPERIENCE

July 12, 2016-present	**Graduate Faculty Member** Professional Science Master in Applied Science and Technology School of Applied and Interdisciplinary Studies Kansas State University Olathe, KS
June 27, 2016-present	**Graduate Faculty Member** Master of Public Health College of Veterinary Medicine Kansas State University Manhattan, KS
January 28, 2014-present	**Ancillary Faculty Appointment** Department of Diagnostic Medicine/Pathobiology College of Veterinary Medicine Kansas State University Manhattan, KS
August 10, 2013-present	**Adjunct Assistant Professor** Department of Pathology University of Texas Medical Branch Galveston, TX
August 10, 2013-present	**Adjunct Member** Sealy Center for Vaccine Development University of Texas Medical Branch Galveston, TX
August 4, 2013-present	**Research Assistant Professor (non-tenure track)** Kansas State University Olathe, KS

August 4, 2013-present	**Program Leader - K-State Olathe campus** **Master of Science in Veterinary Biomedical Science** Kansas State University Olathe, KS
August 4, 2013-May 1, 2014	**Business Development Specialist** U.S.-China Center for Animal Health Kansas State University Olathe, KS
September 27, 2010-August 3, 2013	**Advanced Scholar** Translational Research Scholar Program Institute for Translational Sciences (NIH UL1RR029876) University of Texas Medical Branch Galveston, TX
October 1, 2009-August 3, 2013	**Assistant Professor (non-tenure track)** Department of Pathology University of Texas Medical Branch Galveston, TX
February 1, 2009-September 30, 2009	**Instructor** Department of Pathology University of Texas Medical Branch Galveston, TX
September 1, 2006-January 31, 2009	**Postdoctoral Research Fellow** Professor Scott Weaver, MS, PhD (Supervisor) Department of Pathology University of Texas Medical Branch Galveston, TX
June 22, 2004-August 31, 2006	**Postdoctoral Research Fellow** Professors Scott Weaver, MS, PhD and Robert Tesh, MD (Co-supervisors) Department of Pathology University of Texas Medical Branch Galveston, TX
July 21, 1997-May 28, 2004	**Post-DVM Doctoral Candidate** Professor Douglas Antczak, VMD, PhD (Supervisor) J. A. Baker Institute for Animal Health Department of Microbiology and Immunology College of Veterinary Medicine Cornell University Ithaca, NY

October 3, 1994-July 1, 1997	**Large Animal Surgery Resident** Associate Professor Elizabeth Santschi, DVM (Supervisor) Department of Clinical and Population Sciences College of Veterinary Medicine University of Minnesota St. Paul, MN
July 1, 1993-July 1, 1994	**Large Animal Intern** Professor Arthur Ortenburger, DVM (Supervisor) Department of Health Management Atlantic Veterinary College University of Prince Edward Island Charlottetown, Prince Edward Island, Canada
March 14-April 12, 1993	**Large Animal Externship** G. Marvin Beeman, DVM Littleton Large Animal Clinic Littleton, CO
July, 1992	**Assistant to the Texas 4-H State Horse Show Veterinarian** Associate Professor Michael Martin, DVM Abilene, TX
May-August, 1990 and 1991	**Genetics Laboratory Student Technician** Professor James E. Womack, PhD Member, National Academy of Science Department of Pathobiology College of Veterinary Medicine Texas A&M University College Station, TX
May-August, 1989	**Veterinary Assistant** Gary Lackey, DVM Highway 30 Veterinary Clinic College Station, TX
January 1, 1987-August 31, 1989	**Data Processing Receptionist** Jo Woodard Texas Agricultural Experiment Station (T.A.E.S.) Texas A&M University College Station, TX

RESEARCH ACTIVITIES

Areas of expertise

- Immunopathology and infectious disease pathogenesis of alphaviruses in rodent, equine, and non-human primate animal models
- Discovery and characterization of novel therapeutic agents for human and animal viral pathogens
- Innate and adaptive immune responses to arboviruses (including alphaviruses, flaviviruses, and phleboviruses)
- Development of vaccines and other biologics for biodefense and emerging infectious diseases (human and animal)
- Phylogenetics and evolutionary processes of arboviruses as they relate to emergence

Grant Support

Submitted

USDA National Institute of Food and Agriculture (NIFA) grant
"Addressing National Needs in Integrative Biosciences for Sustainable Food and Agricultural Systems Through Public Health Training"
Project Director-Ellyn Mulcahy; Co-I-A. Paige Adams
August 2017-July 2020

Past

K08 AI077796 Mentored Clinical Scientist Research Career Development Award (NIH), National Institute of Allergy and Infectious Diseases (NIAID)
"Pathogenesis of Subtype IE Venezuelan Equine Encephalitis Virus"
PI-A. Paige Adams
11.64 calendar months, $375,000, June 15, 2010-May 31, 2013

U54 AI057156 Western Regional Center of Excellence (WRCE) for Biodefense and Emerging Infectious Diseases Research, National Institute of Allergy and Infectious Diseases (NIAID)
"Quantitative mapping of $CD8^+$ T cell responses during chikungunya vaccination"
Project Director-David H. Walker; PI-N. Varadarajan; Co-I-A. Paige Adams
0.36 calendar months, $140,000, March 1, 2011-February 28, 2013

James W. McLaughlin Fellowship Fund
"Subtype IE Venezuelan Equine Encephalitis Pathogenesis"
PI-A. Paige Adams, September 2006-August 2008

Grayson-Jockey Club Research Foundation grant
"Accelerated Regression of Endometrial Cups and eCG"
PI-Douglas F. Antczak; Scientist-A. Paige Adams, April 2002-March 2004

F32 HD08575 Individual NRSA training grant (NIH)
"Ectopic Transplantation of Invasive Trophoblast"
PI-A. Paige Adams, July 2000-July 2003

T32 RR07059 Institutional NRSA training grant (NIH)
"Graduate Program in Comparative Medicine"
Project Director-Douglas D. McGregor, July 1997-July 2000

COMMITTEE RESPONSIBILITIES

Kansas State University

2017	Chair, Search Committee for Professor of Practice (Animal Health) at K-State Olathe
2017	Member, Search Committee for Program Manager at K-State Olathe
2016-present	Member, Curriculum Committee at K-State Olathe
2016-present	Member, Admissions Committee for the Professional Science Master in Applied Science and Technology program at K-State Olathe
2016-present	Member, One Health Day Organizational Committee at K-State Olathe
2015	Member, Search Committee for Assistant Program Coordinator at K-State Olathe
2015	Member, Search Committee for Director of Student Services at K-State Olathe
2014-present	Member, K-State Online Advisory Council
2014	Member, Search Committee for Director of Educational Innovation and Strategic Technology at K-State Olathe
2014	Member, Search Committee for the Associate Dean of the Graduate School for Academic Affairs and Research
2014	Member, Search Committee for the Marketing Director in the Division of Communication and Marketing (DCM)
2013-present	Member, Student Scholarship Committee at K-State Olathe
2013-present	Member, Admissions Committee for the Veterinary Biomedical Science Master of Science program at K-State Olathe
2013-present	Member, Academic Affairs team at K-State Olathe
2013-16	Member, Kansas City Industry Relations Committee

Committee Responsibilities other than Kansas State University

University of Texas Medical Branch

2011-2013	Member, Admissions and Recruitment Committee for the Experimental Pathology graduate program

2011-2012 Member, Organizing committee for the Western Regional Center of Excellence (WRCE) symposium, "Emerging Viruses: Disease Models and Strategies for Vaccine Development"

2009-2011 Member, Institute of Translational Sciences (ITS) Multidisciplinary Translational Team (Arboviral Vaccine Development)

Cornell University

2001 Organizing chair, Immunology Meeting for Graduate Students-NE Region

2002 Organizing chair, Immunology Meeting for Graduate Students-NE Region

Texas A&M University

1988 Member, Alpha Zeta Agricultural Honor Society Committee

TEACHING RESPONSIBILITIES AT KANSAS STATE UNIVERSITY

Teaching

College of Veterinary Medicine

2014-17 DMP 705 Veterinary Immunology
Neonatal Immunity (1 lecture)

Graduate School

2017 AAI 895 Current Topics in Animal Health Product Regulations
Course director

2017 DMP/MPH 802 Environmental Health
Course director

2016-17 AAI 801 Interdisciplinary Process
Guest lecturer

2016-17 DMP 880/890 Zoonotic Pathogens in the Food Chain
Course director

2015-17 DMP/AAI 895 Vaccinology
Course director

2015-17 DMP 710 Introduction to One Health
Course director

2014-17 DMP/AAI 895 Regulatory Aspects of Drug and Vaccine Development in the Animal Health Industry
Course director

2014	DMP 770 Emerging Infectious Diseases Course director
2014	DMP 722 Veterinary Virology Course director
2014-17	DMP 870 Pathobiology Seminar Course director
2014-17	DMP 899 MS Research in Pathobiology Course director
2013-17	DMP 850 Domestic Animal Immunology Neonatal Immunity (1 lecture)

Member of Master's Supervisory Committees

2017-present	Eric Racki Professional Science Master program
2017-present	Michael Paton Professional Science Master program
2017-present	Serina Taylor Master of Public Health program
2016-17	Eugene Johnson, DVM Master of Public Health program
2015-16	Kim Plevniak Biological and Agricultural Engineering program
2014-15	Chris Lewis, DVM Master of Public Health program

Major Professor of Master's Supervisory Committees

2016-present	Anna Sage Veterinary Biomedical Science graduate program
2016-present	Jessica Pearson Master of Public Health program
2015-present	Abigail Lane Veterinary Biomedical Science graduate program
2015-present	Rebecca Sease Veterinary Biomedical Science graduate program

2015-present	Melissa Snider Veterinary Biomedical Science graduate program
2014-present	Corey White Veterinary Biomedical Science graduate program
2013-present	Annette Kenser Veterinary Biomedical Science graduate program
2013-present	Justin Engels Veterinary Biomedical Science graduate program
2015-17	Yen Yeh Wang Veterinary Biomedical Science graduate program
2015-17	Donna Steve Veterinary Biomedical Science graduate program
2015-16	Shelby Miller Veterinary Biomedical Science graduate program
2015-16	Josette Wilsey Veterinary Biomedical Science graduate program
2015-16	Joel Baublits Veterinary Biomedical Science graduate program
2014-16	Heather Davis Veterinary Biomedical Science graduate program
2014-16	Kyle Lefler Veterinary Biomedical Science graduate program

Veterinary Biomedical Science Master of Science Program Advisor (K-State Olathe)

2017-present	Rachel Thiher
2016-present	Garrett Tarcha
2016-present	Sila Samo
2016-present	Stacey Zook
2016-present	Matthew Loeb
2016-present	Mori Atobatele
2016-present	Karla Mullen
2016-present	Kate Sanders
2016-present	Erica Fitzpatrick
2015-present	Riley Bunde
2015-present	Kara Claxton
2015-present	Amber Logan
2015-present	Corey Schneider
2014-present	Kelley Tuel
2014-present	Melinda Poole O'Banion

TEACHING RESPONSIBILITIES AT THE UNIVERSITY OF TEXAS MEDICAL BRANCH

Teaching

School of Medicine (SOM)

2013	Gross Anatomy / Radiology Problem-based Learning Course (2 contact hours 3x/week)
2012	MDPHD 6203 Current Topics in Molecules, Cells, and Tissues Nonalcoholic steatohepatitis (NASH) – Discussion leader (1 session)
2011	Faculty interviewer of medical school applicants (10 x 45 min interviews)
2010-12	Renal, Fluids, and Electrolytes Problem-based Learning Course (2 contact hours 3x/week)
2008	Facilitator Skills Series ▪ Introduction to Problem-based Learning Workshop ▪ Beginning Facilitation Skills Workshop Certificate of Completion

School of Health Professions (SHP)

2012-13	CLLS 4325 Advanced Microbiology & Mycology Virology (2 lectures)

Graduate School of Biomedical Sciences (GSBS)

2013	BBSC 6220 Animal Models of Human Diseases Course director
2013	BBSC 6220 Animal Models of Human Diseases General principles of animal models (1 lecture)
2012	BBSC 6205 Microorganisms and Infectious Diseases Course director
2012	BBSC 6205 Microorganisms and Infectious Diseases Host immune responses to microbial infections (1 lecture)
2011-present	BBSC 6219 Vaccine Development Pathway: From Discovery to Licensure Vaccines in veterinary medicine (1 lecture)
2010, 2012	PATH 6310 Principles of Biodefense Alphavirus encephalitides (1 lecture)

2010, 2013 PATH 6318 Tropical Diseases
Venezuelan equine encephalitis and other alphavirus encephalitides (1 lecture)

2010 BBSC 6101 Academic Skills and Ethics
Discussion leader (1 session)

2009 Bromberg Workshop in Teaching and Mentoring
Certificate of Completion

Students/Mentees/Advisees/Trainees

Undergraduate degree students

2012-2013 Maria Alcorn, University of Texas at San Antonio, San Antonio, TX
NIH Postbaccalaureate Research Education Program (PREP) (R25)

2011, 2012 Courtnee Wright, Albany State University, Albany, GA
Summer Undergraduate Research Program

2010 Joseph Rodriguez, Texas A&M University, Kingsville, TX
NIH Postbaccalaureate Research Education Program (PREP) (R25)

2006 Jared Pitts, Texas A&M University, College Station, TX
Summer Undergraduate Research Program

PhD degree students

2010 Nikolay Kalvatchev, National Center of Infectious and Parasitic Diseases, Sofia, Bulgaria
Visiting student

2010 Krista Versteeg, UTMB, Galveston, TX
Rotation student (Presidential Scholar)

Member of Ph.D. Supervisory Committee

2011-2014 Evandro Winkelmann
Experimental Pathology graduate program

TEACHING RESPONSIBILITIES AT OTHER UNIVERSITIES

Teaching

Cornell University, College of Veterinary Medicine

2001-02 VTMED 653 Advanced Equine Lameness
Instructed third and fourth year veterinary students during lameness examinations.

University of Minnesota, College of Veterinary Medicine

1997 CAPS 5355 Colic Team Management Course
Complications and Challenges (1 lecture)

1997 CAPS 5355 Colic Team Management Course
Introduction to Pathophysiology (1 lecture)

1996 CAPS 5352 Large Animal Surgery
Surgical Diseases of the Neonatal Bladder and Umbilical Remnants (1 lecture)

1996 CAPS 5184 Neonatology
Diseases of the Neonatal Bladder and Umbilical Remnants (1 lecture)

1996 CAPS 8393 Problems in Large Animal Orthopedics
Arthroscopy of the Tibiotarsal Joint of the Horse (1 lecture)

1996 Involving Students Short Course
- Active and Cooperative Learning Strategies

Certificate of Completion

1994-96 CAPS 5350 Principles of Veterinary Surgery
Applications of Large Animal Bandages and Splints (1 lecture)

1994-95 CAPS 5352 Large Animal Surgery Laboratory
Instructed fourth year veterinary students during large animal surgical procedures.

1994-95 CAPS 5352 Large Animal Surgery
Equine Wound Healing (1 lecture)

1995 CAPS 8397 Advanced Anesthesia
Hypertonic Saline in Shock Therapy (1 lecture)

<u>Students/Mentees/Advisees/Trainees</u>

Cornell University, College of Veterinary Medicine

Undergraduate degree students

2002 Erica Esser, Cornell University

Veterinary/PhD degree students

2003 Lisa McElroy, Cornell University

Veterinary degree students

2002 Janee Carr, University of Pennsylvania

2001 Kelly Feiner, Cornell University

2000 Erin Dahill, University of Illinois

1999 Anne-Cecile LeFranc, Toulouse, France

1998 Kitren Nickerson, Colorado State University

PROFESSIONAL AFFILIATIONS

1993-present American Veterinary Medical Association
1993-present Texas Veterinary Medical Association
- 2011-present Nominated member, Research Committee of the TVMA

1997-present American Association of Equine Practitioners
1998-present American Association of Immunologists
1999-present American Association of Veterinary Immunologists
- 2012-2014 Elected member, Nominations Committee of the AAVI

2006-present American Society for Virologists
2007-present American Society of Tropical Medicine and Hygiene
2010-present American Society for Microbiology
2014-present Kansas Veterinary Medical Association
2016-present American Association of Industry Veterinarians

HONORS

1986-90 Houston Livestock Show & Rodeo Scholarship, Texas A&M University

1987 Phi Eta Sigma Honor Society (top 5%), Texas A&M University

1987-89 Dean's Honor Roll, Texas A&M University

1988 Distinguished Student in College of Agriculture, Texas A&M University

1988 Bruce McGee College of Agriculture Scholarship, Texas A&M University

1989 Alpha Zeta Agricultural Honor Society, Texas A&M University

1989 Charles J. Koerth Sr. Memorial Scholarship, Texas A&M University

1990 Cum Laude, Bachelor of Science, Veterinary Science, Texas A&M University

1993 Phi Zeta Veterinary Honor Society, Texas A&M University

1993 Cum Laude, Doctor of Veterinary Medicine, Texas A&M University

1999 Resident Research Publication Award (2nd place), American College of Veterinary Surgeons (ACVS)

2003 Graduate Student Award (1st place oral presentation), American Association of Veterinary Immunologists (AAVI)

2007 Postdoctoral Fellow Travel Award, American Society for Virology (ASV)

2007 Postdoctoral Fellow Travel Award, American Society of Tropical Medicine and Hygiene (ASTMH)

2012 Translational Research Scholars Program (TRSP) Scholar Spotlight, Institute for Translational Sciences (ITS) Newsletter (June, 2012), University of Texas Medical Branch

2012 Worldwide Who's Who, Honored Member

ADDITIONAL INFORMATION

Journal reviewer

Archives of Virology (2010-17 *Ad hoc*)
Vaccine (2010, 2012, *Ad hoc*)
Biology of Reproduction (2010-13, *Ad hoc*)
Acta Biomaterialia (2011, *Ad hoc*)
Laboratory Investigation (2011, Editorial Intern)
PLoS One (2012-13, *Ad hoc*)
Transactions of the Royal Society of Tropical Medicine and Hygiene (2012, *Ad hoc*)
Virology & Mycology, (2012, Editorial Board Member)
Journal of Vaccines & Immunization (2012, Editorial Board Member)

Grant reviewer

Center for Biodefense & Emerging Infectious Diseases (CBEID), UTMB (2010)

Medical Research Council (MRC), United Kingdom (2014)

PRIMARY PUBLICATIONS (Peer-reviewed)

1. Forrester NL, Auguste AJ, Dugan VG, Wortheim JO, **Adams AP**, Chen R, Gorchakov R, Leal G, Pandya J, Halpin RA, Stockwell TB, Wentworth DE, Smith M, Kosakovsky SL, Weaver SC. Evolution and spread of Venezuelan equine encephalitis complex alphaviruses in the Americas. **PLoS Negl Trop Dis 2017** (accepted).

2. Seymour RL*, **Adams AP*,** Leal G, Alcorn MDH, Weaver SC. A Rodent Model of Chikungunya Virus Infection in RAG1$^{-/-}$ Mice, with Features of Persistence, for Vaccine Safety Evaluation**. PLoS Negl Trop Dis 2015**;9(6):e0003800.

3. Weise WJ, Hermance ME, Forrester NL, **Adams AP**, Langsjoen R, Gorchakov R, Wang E, Alcorn MDH, Tsetsarkin K, Weaver SC. A novel live-attenuated vaccine candidate for Mayaro fever. **PLoS Negl Trop Dis 2014**;8(8):e2969.

4. Roy CJ, **Adams AP**, Wang E, Plante K, Gorchakov R, Seymour RL, Vinet-Oliphant H, Weaver SC. Chikungunya vaccine candidate is highly attenuated and protects nonhuman primates against Disease following a single dose. **J Infect Dis 2014**;209:1891-1899.

5. Roy CJ*, **Adams AP***, Wang E, Leal G, Seymour RL, Sivasubramani S, Mega W, Frolov I, Killeen SZ, Didier PJ, Weaver SC. A chimeric Sindbis-based vaccine protects cynomolgus macaques against a lethal aerosol challenge of eastern equine encephalitis virus. **Vaccine 2013**;31:1464-1470.

6. Kalvatchev N, Christova I, Weaver SC, **Adams AP**. Review and case report of a Bulgarian patient with Dobrava virus infection and associated hemorrhagic fever with renal syndrome. **Biotechnol & Biotechnol Eq 2013**;27:3465-3469.

7. **Adams AP**, Siirin M, Travassos da Rosa APA, Nunes MR, Xiao S-Y, Tesh RB. Pathogenesis of Modoc virus (*Flaviviridae*; *Flavivirus*) in persistently infected hamsters. **Am J Trop Med Hyg 2013**;88:455-460.

8. **Adams AP**, Navarro-Lopez R, Ramirez-Aguilar F, Lopez-Gonzalez I, Leal G, Flores-Mayorga JM, Travassos Da Rosa A, Saxton-Shaw KD, Singh AJ, Borland EM, Powers AM, Tesh RB, Weaver SC, Estrada-Franco JG. Venezuelan equine encephalitis virus activity in the Gulf Coast region of Mexico, 2003-2010. **PLoS Negl Trop Dis 2012**;6:e1875.

9. Gorchakov R, Wang E, Leal G, Forrester NL, Plante K, Rossi SL, Partidos CD, **Adams AP**, Seymour RL, Weger J, Borland EM, Sherman MB, Powers AM, Osorio JE, Weaver SC. Attenuation of chikungunya vaccine strain 181/clone 25 is determined by 2 amino acid substitutions in the E2 envelope glycoprotein. **J Virol 2012**;86:6084-6096.

10. Kenney JL, **Adams AP**, Gorchakov R, Leal G, Weaver SC. Adaptation of arboviruses to mosquitoes: Determinants of infection of enzootic Venezuelan equine encephalitis virus in *Culex (Melanoconion) taeniopus*. **PLoS Negl Trop Dis 2012**;6:e1606.

11. Zasloff M, **Adams AP**, Beckerman B, Campbell A, Han Z, Meza I, Julander J, Mishra A, Qu W, Taylor JM, Weaver SC, Wong, GC. Squalamine as a broad-spectrum systemic antiviral agent with therapeutic potential. **PNAS 2011**;108:15978-15983.

12. Forrester NL, Guerbois M, **Adams AP**, Liang X, Weaver SC. Analysis of intra-host variation in Venezuelan equine encephalitis virus reveals repeated deletions in the 6-kilodalton protein gene. **J Virol 2011**;85:8709-8717.

13. de Mestre AM, Hanlon D, **Adams AP**, Runcan E, Leadbeater JC, Erb HN, Costa CC, Miller D, Allen WR, Antczak DF. Functions of ectopically transplanted invasive horse trophoblast. **Reproduction 2011**;141:849-856.

14. Auguste AJ, **Adams AP**, Arrigo NC, Martinez R, Travassos Da Rosa APA, Adesiyun AA, Chadee DD, Tesh RB, Carrington CVF, Weaver SC. Isolation and characterization of sylvatic mosquito-borne viruses in Trinidad: Enzootic transmission and a new potential vector of Mucambo virus. **Am J Trop Med Hyg 2010**;83:1262-1265.

15. Arrigo NC, **Adams AP**, Watts DM, Newman PC, Weaver SC. Cotton rats (*Sigmodon hispidus*) and house sparrows (*Passer domesticus*) as amplification hosts of North and South American strains of eastern equine encephalitis virus. **EID 2010**;16:1373-1380.

16. Volk SM, Chen R, Tsetsarkin KA, **Adams AP**, Garcia TI, Sall AA, Nasar F, Schuh AJ, Holmes EC, Higgs S, Brault AC, Maharaj PD, Weaver SC. Genome scale phylogenetic analyses of chikungunya virus reveal independent emergences of recent epidemics and varying evolutionary rates. **J Virol 2010**;84:6497-6504.

17. Kenney JL, **Adams AP**, Weaver SC. Transmission potential of two chimeric western equine encephalitis vaccine candidates in *Culex tarsalis*. **Am J Trop Med Hyg 2010**;82:354-359.

18. Arrigo NC, **Adams AP**, Weaver SC. Evolutionary patterns of eastern equine encephalitis virus in North versus South America suggest ecological differences and taxonomic revision. **J Virol 2010**;84:1014-1025.

19. Aguilar PV, **Adams AP**, Vargas J, Mannock S, Diaz A, Liang X, Roca Y, Weaver SC, Kochel TJ. Endemic circulation of Venezuelan equine encephalitis virus in Bolivia, Ecuador and Peru: Identification of a new subtype ID genetic lineage. **PLoS Negl Trop Dis 2009**;3:e514.

20. Auguste AJ, Volk SM, Arrigo NC, Martinez R, Ramkissoon V, **Adams AP**, Thompson NN, Adesiyun AA, Chadee DD, Foster JE, Travassos Da Rosa AP, Tesh RB, Weaver SC, Carrington CVF. Isolation and phylogenetic analysis of Mucambo virus (Venezuelan equine encephalitis virus subtype IIIA) in Trinidad. **Virology 2009**;392:123-130.

21. Atasheva S*, Wang E*, **Adams AP***, Plante KS, Ni S, Taylor K, Miller ME, Frolov I, Weaver SC. Chimeric alphavirus vaccine candidates provide complete protection in mice after intranasal challenge with western equine encephalitis virus. **Vaccine 2009**;27:4309-4319.

22. **Adams AP**, Aronson JF, Tardif SD, Patterson JL, Brasky KM, Geiger R, de la Garza M, Carrion R, Jr., Weaver SC. Common marmosets (*Callithrix jacchus*) as a nonhuman primate model to assess the virulence of eastern equine encephalitis virus strains. **J Virol 2008;**82:9035-9042.

23. Wang E, Volkova E, **Adams AP**, Forrester N, Xiao S-Y, Frolov I, Weaver SC. Chimeric alphavirus vaccine candidates for chikungunya. **Vaccine 2008**;26:5030-5039.

24. Aguilar PV*, **Adams AP***, Wang E, Carrara A-S, Anishchenko M, Frolov I, Weaver SC. Structural and nonstructural genes of eastern equine encephalitis virus are determinants of interferon sensitivity and mouse neurovirulence. **J Virol 2008**;82:4920-4930.

25. Smith DR, **Adams AP**, Kenney JL, Wang E, Weaver SC. Venezuelan equine encephalitis virus in the mosquito vector *Aedes taeniorhynchus*: infection initiated by a small number of susceptible epithelial cells and a population bottleneck. **Virology 2008**;372:176-186.

26. Wang E, Petrakova O, **Adams AP**, Aguilar PV, Kang W, Paessler S, Frolov I, Weaver SC. Chimeric Sindbis/eastern equine encephalitis vaccine candidates are highly attenuated and immunogenic in mice. **Vaccine 2007**;25:7573-7581.

27. **Adams AP***, Oriol RE*, Campbell RE, Oppenheim YC, Antczak DF. The effect of skin allografting on the equine endometrial cup reaction. **Theriogenology 2007**;68:237-247.

28. **Adams AP**, Antczak DF. Ectopic transplantation of equine invasive trophoblast. **Biol Reprod 2001**;64:753-763.

29. **Adams AP**, Santschi EM, Mellencamp MA. Antibacterial properties of a silver chloride-coated nylon wound dressing. **Vet Surg 1999**;28:219-225.

30. Boussauw B, Santschi EM, Wilderjans H, Troedsson MH, **Adams AP**. Uterine drainage under general anaesthesia before ovariohysterectomy in two mares. **Vet Rec 1998**;142:582-583.

31. **Adams AP**, Collatos C, Fuentealba C, Illanes O, Blanchard R. Neuroaxonal dystrophy in a two year old Quarter Horse filly. **Can Vet J 1996**;37:43-44.

32. **Adams AP**, Honnas CM, Ford TS, Watkins JP. Arthrodesis of a subluxated proximal interphalangeal joint in a horse. **Equine Pract 1995**;17(3):26-31.

*Authors contributed equally to this work.

OTHER

Book chapter

1. **Adams AP**. Veterinary vaccines: Introduction. In: Barrett AD, Milligan GN, eds. *Vaccinology*. Oxford: Wiley-Blackwell**; 2014**.

2. **Adams AP**. Veterinary vaccines: Regulations and impact on emerging infectious diseases. In: Barrett AD, Milligan GN, eds. *Vaccinology*. Oxford: Wiley-Blackwell; **2014.**

ABSTRACTS

1. **Adams AP**, Roy CJ, Wang E, Plante K, Gorchakov R, Seymour RL, Vinet-Oliphant H, Weaver SC. A novel vaccine candidate for chikungunya fever is highly attenuated and protects nonhuman primates against disease following a single dose. **11th Vaccines Research & Development**: **All Things Considered Conference**, Boston, MA, July 8-10, **2013**. (Poster)

2. **Adams AP**, Bowen RA, Weaver SC. Evaluation of the cellular immune response to Venezuelan equine encephalitis virus in disease progression and viral amplification. **James Steele Conference on Diseases in Nature Transmissible to Man (DIN)**, Houston, TX, June 19-21, **2013**. (Poster)

3. **Adams AP**, Seymour R, Weaver SC. Vaccine safety and the development of a rodent model of persistent chikungunya virus infection. **American Society for Virology (ASV)**, 31st Annual Meeting, Madison, WI, July 21-25, **2012**. (Poster)

4. **Adams AP**, Weaver SC, Estrada-Franco JG. Ecology of Venezuelan equine encephalitis in the Gulf Coast region of Mexico, 2003-2010. **James Steele Conference on Diseases in Nature Transmissible to Man (DIN)**, Corpus Christi, TX, June 20-22, **2012**. (Poster)

5. **Adams AP**, Estrada-Franco JG, Weaver SC. Ecología y patogénesis de la encefalitis equina venezolana subtipo IE. **Simposio: Impacto de las encephalitis equinas en la salud pública y veterinaria**, Panama City, Panama, June 5-6, **2012**. (Oral)

6. **Adams AP**, Sendra VG, Roy CJ, Killeen SZ, Weaver SC, Varadarajan N. Quantitative mapping of $CD8^+$ T-cell responses during chikungunya vaccination in *Macaca fascicularis* using microengraving. **8th Annual Research Meeting of the NIAID Regional Centers of Excellence in Biodefense and Emerging Infectious Diseases**, Amelia Island, FL, March 26-28, **2012**. (Poster)

7. **Adams AP**, Bowen RA, Gorchakov R, Liang X, Weaver SC. Differential replication of epizootic versus enzootic subtype IE Venezuelan equine encephalitis viruses in equids. **American Society of Tropical Medicine and Hygiene (ASTMH)**, 60th Annual Meeting, Philadelphia, PA, December 4-8, **2011**. (Poster)

8. Wang E, Estrada-Franco J, **Adams AP**, Leal G, Bowen RA, Weaver SC. Recombinant Sindbus/Venezuelan equine encephalitis virus for the detection of serotype-specific immunoglobulin M antibodies in Mexico. **American Society of Tropical Medicine and Hygiene (ASTMH)**, 60th Annual Meeting, Philadelphia, PA, December 4-8, **2011**. (Poster)

9. Weaver SC, Wang E, **Adams AP**, Seymour R, Killeen SZ, Roy CJ. Novel vaccine candidate protects macaques against chikungunya fever. **American Society of Tropical Medicine and Hygiene (ASTMH)**, 60th Annual Meeting, Philadelphia, PA, December 4-8, **2011**. (Poster)

10. Estrada-Franco JG, **Adams AP**, Ramirez-Aguilar FJ, Leal G, Lopez-Gonzalez I, Navarro-Lopez R, Travassos Da Rosa A, Powers A, Tesh R, Bowen R, Weaver SC. Ecology of Venezuelan equine encephalitis in the Gulf Coast region of Mexico. **American Society of Tropical Medicine and Hygiene (ASTMH)**, 60th Annual Meeting, Philadelphia, PA, December 4-8, **2011**. (Poster)

11. Kenney JL, **Adams AP**, Gorchakov RV, Weaver SC. Genetic determinants of infection and dissemination of enzootic Venezuelan equine encephalitis virus in the enzootic mosquito vector, *Culex (Melanoconion) taeniopus*. **American Society of Tropical Medicine and Hygiene (ASTMH)**, 60th Annual Meeting, Philadelphia, PA, December 4-8, **2011**. (Poster)

12. Sendra VG, Weaver SC, **Adams AP**, Varadarajan N. Microengraving: A tool for quantitative mapping of $CD8^+$ T-cell responses during vaccination. **Western Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research Annual Meeting**, College Station, TX, October 11-12, **2011**. (Poster)

13. Wright C, **Adams AP**. Human serosurvey of alphaviruses circulating in Iquitos, Peru. **Summer Undergraduate Research Program (SURP)**, University of Texas Medical Branch, Galveston, TX, August 12, **2011**. (Poster)

14. Kenney J, **Adams AP**, Weaver SC. Determinants of Venezuelan equine encephalitis infection of the enzootic mosquito vector, *Culex taeniopus*. **17th Annual Pathology Department Trainee Research Day**, Galveston, TX, April 26, **2011**. (Poster)

15. Plante K, Gorchakov R, **Adams AP**, Lewis J, Partidos CD, Osorio J, Frolov I, Weaver SC. Characterization of IRES-based chikungunya vaccine candidates. **17th Annual Pathology Department Trainee Research Day**, Galveston, TX, April 26, **2011**. (Poster)

16. Roy CJ, Wang E, **Adams AP**, Seymour R, Killeen SZ, Didier PJ, Kuroda M, Sugomoto C, Weaver SC. CHIK/IRES vaccine is immunogenic and protects against viral challenge in cynomolgus macaques. **7th Annual Research Meeting of the NIAID Regional Centers of Excellence in Biodefense and Emerging Infectious Diseases**, Denver, CO, April 3-5, **2011**. (Oral)

17. **Adams AP**, Seymour RL, Weaver SC. Human monocytic responses to wild-type and vaccine strains of Venezuelan equine encephalitis virus. **Keystone Symposium - Immunological Mechanisms of Vaccination**, Seattle, WA, October 27-November 1, **2010**. (Poster)

18. Kenney JL, Gorchakov R, **Adams AP**, Weaver SC. The role of Venezuelan equine encephalitis virus nonstructural protein genes in infection of the enzootic mosquito vector. **Society of Vector Ecology Annual Conference**, Raleigh, NC, September 26-30, **2010**. (Oral)

19. **Adams AP**, Seymour RL, Weaver SC. Human dendritic cell responses to wild-type and vaccine strains of Venezuelan equine encephalitis virus. **American Society for Virology (ASV)**, 29th Annual Meeting, Bozeman, MT, July 17-21, **2010**. (Poster)

20. **Adams AP**, Wang E, Volkova E, Plante K, Gorchakov R, Forrester N, Frolov I, Weaver SC. Novel vaccine candidates for chikungunya fever. **6th Annual Research Meeting of the NIAID Regional Centers of Excellence in Biodefense and Emerging Infectious Diseases**, Las Vegas, NV, April 11-13, **2010**. (Oral)

21. Auguste J, Volk S, Arrigo N, Martinez R, Ramkissoon V, **Adams AP**, Adesiyun A, Chadee D, Foster J, Travassos Da Rosa A, Tesh R, Weaver S, Carrington CV. Isolation and phylogenetic analysis of Mucambo virus (Venezuelan equine encephalitis complex subtype IIIA) in Trinidad. **American Society of Tropical Medicine and Hygiene (ASTMH)**, 58th Annual Meeting, Washington, D.C., November 18-22, **2009**. (Oral)

22. **Adams AP**, Wang E, Kenney JL, Atasheva S, Leal G, Plante K, Frolov I, Weaver SC. Chimeric alphavirus vaccine candidates protect mice from western equine encephalitis virus and are incapable of being transmitted by the mosquito vector, *Culex tarsalis*. **The changing landscape of vaccine development: Vaccines for global health**, Sealy Center for Vaccine Development, Galveston, TX, November 10-12, **2009**. (Poster)

23. **Adams AP**, Wang E, Volkova E, Plante K, Gorchakov R, Forrester N, Frolov I, Weaver SC. Novel vaccine candidates for chikungunya fever. **3rd Vaccine Global Congress**, Singapore, October 4-6, **2009**. (Oral)

24. **Adams AP**, Aguilar PV, Volk SM, Liang X, Kochel T, Weaver SC. Phylogenetic and evolutionary analyses of Venezuelan equine encephalitis viruses in South America. **American Society for Virology (ASV)**, 28th Annual Meeting, Vancouver, Canada, July 11-15, **2009**. (Oral)

25. Aguilar PV, **Adams AP**, Liang X, Vargas J, Mannock S, Felices V, Diaz A, Cadenas M, Guevara C, Roca Y, Agudo R, Vallejo E, Weaver SC, Kochel TJ. Identification and genetic analyses of a new Venezuelan equine encephalitis ID genotype in Peru and Bolivia. **American Society for Virology (ASV)**, 28th Annual Meeting, Vancouver, Canada, July 11-15, **2009**. (Poster)

26. Volk SM, Garcia TI, Sall AA, Schuh AJ, Tsetsarkin KA, Neely DA, Brault AC, **Adams AP**, Higgs S, Weaver SC. Chikungunya evolution: Urban-transmitted lineages diverge twice as fast as lineages with an enzootic transmission history. **American Society for Virology (ASV)**, 28th Annual Meeting, Vancouver, Canada, July 11-15, **2009**. (Poster)

27. Arrigo NC, Newman PC, **Adams AP**, Watts DM, Weaver SC. North and South American eastern equine encephalitis virus infection of hispid cotton rats. **American Society of Tropical Medicine and Hygiene (ASTMH)**, 57th Annual Meeting, New Orleans, LA, December 7-11, **2008**. (Poster)

28. Wang E, Volkova E, **Adams AP**, Ni S, Frolov I, Weaver SC. Chimeric alphavirus vaccines for western equine encephalitis. **2nd Vaccine Global Congress**, Boston, MA, December 7-9, **2008**. (Oral)

29. **Adams AP**, Aguilar PV, Wang E, Kang W, Carrara A-S, Anishchenko M, Frolov I, Weaver SC. Role of nonstructural and structural protein regions of eastern equine encephalitis virus in neurovirulence and tissue tropism in mice. **American Society for Virology (ASV)**, 27th Annual Meeting, Ithaca, NY, July 12-16, **2008**. (Oral)

30. Weaver SC, Wang E, Volkova E, Frolova E, **Adams AP**, Forrester N, Xiao S-Y, Frolov I. Chimeric alphavirus vaccine candidates for chikungunya virus. **American Society for Virology (ASV)**, 27th Annual Meeting, Ithaca, NY, July 12-16, **2008**. (Poster)

31. **Adams AP**, Arrigo NC, Aronson JF, Tardif SD, Patterson JL, Brasky KM, Johnson CE, de la Garza M, Carrion R, Jr., Weaver SC. Common marmosets (*Callithrix jacchus*) as a non-human primate model for eastern equine encephalitis. **American Society of Tropical Medicine and Hygiene (ASTMH)**, 56th Annual Meeting, Philadelphia, PA, November 4-8, **2007**. (Poster)

32. **Adams AP**, Pitts JD, Bowen RA, Aronson JF, Weaver SC. Emergence and pathogenesis of Venezuelan equine encephalitis virus subtype IE. **American Society for Virology (ASV)**, 26th Annual Meeting, Corvallis, OR, July 14-18, **2007**. (Poster)

33. Weaver SC, Wang E, Frolov I, Petrakova O, **Adams AP**, Paessler S. Chimeric Sindbis virus-based alphavirus vaccines. **4th Annual Research Meeting of the NIAID Regional Centers of Excellence in Biodefense and Emerging Infectious Diseases**, St. Louis, MO, April 15-17, **2007**. (Oral)

34. de la Garza M, Carrion R, Brasky K, Patterson J, Tardif S, Arrigo N, Weaver S**, Adams AP**, Lanford R. WRCE non-human primate core facility report. **4th Annual Research Meeting of the NIAID Regional Centers of Excellence in Biodefense and Emerging Infectious Diseases**, St. Louis, MO, April 15-17, **2007**. (Poster)

35. Wang E, **Adams AP**, Frolov I, Weaver SC. Immunogenicity and safety of recombinant Sindbis/eastern equine encephalitis virus in mice. **The changing landscape of vaccine development: Vaccines for global health**, Sealy Center for Vaccine Development, Galveston, TX, November 8-10, **2006**. (Poster)

36. **Adams AP**, Siirin M, Travassos da Rosa APA, Nunes MR, Xiao S-Y, Tesh RB. Pathogenesis of persistent Modoc virus infection in experimentally infected hamsters. **12th Annual Pathology Department Trainee Research Day**, Galveston, TX, May 3, **2006**. (Poster)

37. **Adams AP**, Antczak DF. Interspecies matings: Lack of T cell modulation at the fetal-maternal interface? **Conference of Research Workers in Animal Diseases (CRWAD)**, Chicago, IL, November 9-11, **2003**. (Oral)

38. **Adams AP**, Antczak DF. Immune recognition of antigens expressed by equine ectopic trophoblast. **American Association of Immunologists (AAI)**, Denver, CO, May 6-10, **2003**. (Poster)

39. **Adams AP**, Antczak DF. Comparison of the cellular immune response to equine skin allografts and the endometrial cups of early pregnancy. **Frontiers in Reproduction Symposium**, 5th Annual Meeting, Cambridge, MA, June 27-29, **2002**. (Poster)

40. **Adams AP**, Antczak DF. The immunological responses to ectopic allogeneic and xenogeneic trophoblast. **American Society for Reproductive Immunology (ASRI)**, 20th National Meeting, Jacksonville, FL, June 10-13, **2000**. (Poster)

41. **Adams AP**, Antczak DF. Ectopic transplantation of equine trophoblast. **Ann. Mtg. Prof. Res. Sci., Exp. Biol. 99**, Washington, D.C., April 17-21, **1999**, FASEB J. 13 (5):A994 (abstract #716.10). (Poster)

42. **Adams AP**, Santschi EM, Mellencamp MA, Bleifield EM. *In vitro* antimicrobial study of nylon mesh vapor coated with silver chloride against five equine pathogens. **American College of Veterinary Surgeons Symposium**, Chicago, IL. Veterinary Surgery **1995**;24(5):446. (Poster)

MAJOR INVITED ACTIVITIES

Symposia and conferences

1. Annual Great Plains Infectious Disease Meeting, Kansas Vaccine Institute, University of Kansas, Lawrence, KS, "Current status of vaccines for Venezuelan and eastern equine encephalitis", November 7, 2015.

2. Becoming Faculty: A Short Course on Launching a Scientific Career, Burroughs Wellcome Fund, Davis, CA, "Developing a plan - the first three years", July 30, 2015.

3. Becoming Faculty: A Short Course on Launching a Scientific Career, Burroughs Wellcome Fund, Ithaca, NY, "Work, life, and time", August 1, 2014.

4. Becoming Faculty: A Short Course on Launching a Scientific Career, Burroughs Wellcome Fund, Ithaca, NY, "Mentoring and finding a mentor", August 2, 2014.

5. Becoming Faculty: A Short Course on Launching a Scientific Career, Burroughs Wellcome Fund, East Lansing, MI, "Managing your life and your time during your scientific career", August 3, 2013.

6. Becoming Faculty: A Short Course on Launching a Scientific Career, Burroughs Wellcome Fund, Fort Collins, CO, "How to fit in and get things working as a faculty member", August 4, 2012.

7. James Steele Conference on Diseases in Nature Transmissible to Man (DIN), Corpus Christi, TX, "Current status of vaccines for Venezuelan and eastern equine encephalitis", June 16, 2011.

8. Becoming Faculty: A Short Course on Launching a Scientific Career, Burroughs Wellcome Fund, Orlando, FL, "Working and thriving in veterinary and medical institutions", August 6, 2011.

9. James Steele Conference on Diseases in Nature Transmissible to Man (DIN), Austin, TX, "Chikungunya fever and the development of novel vaccine candidates", June 10, 2010.

10. McLaughlin Colloquium on Infection and Immunity, Institute for Human Infections and Immunity, University of Texas Medical Branch, "Emergence and pathogenesis of Venezuelan equine encephalitis virus subtype IE", March 22, 2007.

11. First Annual Retreat of Infection and Pathobiology Program, Cornell University, "Immunological studies of the fetal-maternal relationship", April 28, 2001.

Invited lectures – on campus

1. K-State Olathe Careers and Cases in Veterinary Medicine, "One world, one health, one medicine", November, 9, 2016.

2. K-State Pre-Vet Club, Manhattan, KS, "Careers in One Health", April 14, 2016.

3. Department of Diagnostic Medicine and Pathobiology Seminar Series, College of Veterinary Medicine, Kansas State University, "Recent advances in vaccine development for Venezuelan and eastern equine encephalitis", March 24, 2016.

4. K-State Olathe webinar, "One health - It's all connected!", March 9, 2016.

5. K-State Olathe Careers and Cases in Veterinary Medicine, "Emerging infectious diseases - When animal and human worlds collide", September 23, 2015.

6. Advancement of Women and Science in Engineering Office, All for Animal Health program, Kansas State University, "What does it mean to be a veterinarian? Oh, the possibilities!", November 9, 2013.

7. Texas A&M University Summer Veterinary Student Research Fellow program, University of Texas Medical Branch, "Research career development: Where do I begin?", May 30, 2013.

8. Viral Pathogenesis Seminar Series - Infectious Diseases and the Nervous System, University of Texas Medical Branch, "Neuropathogenesis of alphaviruses", March 6, 2012.

9. Texas A&M University Summer Veterinary Student Research Fellow program, University of Texas Medical Branch, "Emerging infectious diseases and their impact on human health", June 2, 2011.

10. Translational Research Scholars Program (TRSP) & Building Interdisciplinary Research Careers in Women's Health (BIRCWH) seminar series, University of Texas Medical Branch, "Emergence of Venezuelan equine encephalitis virus and its impact on human health", September 23, 2010.

11. Texas A&M University Summer Veterinary Student Research Fellow program, University of Texas Medical Branch, "Zoonotic infectious disease research and the veterinary scientist", May 28, 2009.

12. Texas A&M University Summer Veterinary Student Research Fellow program, University of Texas Medical Branch, "Studies of zoonotic viral pathogens and the role of a veterinary scientist", June 26, 2008.

13. Texas A&M University Summer Veterinary Student Research Fellow program, University of Texas Medical Branch, "Studies of zoonotic viral pathogens and the role of a veterinary scientist", May 31, 2007.

Invited lectures – off campus

1. Biodefense Research Seminar Series, Texas A&M University, College of Veterinary Medicine, Department of Veterinary Pathobiology, College Station, TX, "Alphaviruses: From pathogenesis to vaccine candidates", April 17, 2012.

2. Pre-Medical Community seminar, San Jacinto College – South Campus, Houston, TX, "Preparing for a career path in infectious disease research – where do I begin?", November 5, 2010.

3. Minnesota Horse Expo, Minnesota State Fairgrounds, St. Paul, MN, "Preventive health maintenance in horses", April 29-30, 1995.

Community Outreach for Kansas State University

2016-present	Instructor, K-State Olathe One Health online non-credit course for high school students
2016-17	Panelist, Microsoft DigiGirlz event at K-State Olathe
2016	Judge, BioGENEius scientific poster competition for Kansas City high school students, sponsored by BioKansas
2015-present	Member, District Advisory Board for the Olathe Public Schools 21st Century High School Programs
2015-present	Member, Advisory Board for the Olathe Public Schools 21st Century High School Animal Health Program
2014-present	Member, K-State Olathe Open House programming committee

Professional Development Programming for Kansas State University

2017-present	Member, K-State Olathe program development team for regulatory affairs in animal health
2017-present	Organizer, K-State Olathe Continuing Education (CE) Lecture Series for Veterinarians and Veterinary Technicians