

# Kimberly A. Greer

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## Education:

**Texas A&M University**, College Station, Texas  
Doctor of Philosophy, Genetics, May 2002

**Texas A&M University**, College Station, Texas  
Master of Science, Genetics, December 1996

**Texas A&M University**, College Station, Texas  
Bachelor of Science, Genetics, December 1992

## Research Experience:

**Prairie View A&M University**, Department of Biology, Prairie View, TX  
Assistant Professor, January 2014-present

- coordinate research activities with community, University, and collaborators
- deliver public and scientific communications regarding research
- teach and train students in the laboratory and in the classroom
- organize and facilitate Microbiology lectures and laboratories
- maintain responsibilities of previously mentioned positions

**North Dakota State University**, North Dakota Genomics Institute, Center for Life Sciences and Agriculture; Fargo, ND

Assistant Professor, December 2012- 2013

- establish North Dakota Genomics Center, set up laboratories and collaborations
- establish networking throughout University to facilitate Genomics Center involvement and utilization of resources provided
- laboratory focus is on inherited disease and aging/longevity

**National Research Council, National Academies of Sciences**; San Antonio, TX

Senior Research Fellow; Air Force Research Laboratory, August 2012- March 2013

- internationally competitive award, Academies high score on independent proposal
- design research initiative to investigate gene expression changes of terahertz exposed cells and tissues
- design research initiative to investigate oxidative stress components of terahertz exposed cells and tissues
- oversee use of the XF24 Seahorse Bioanalyzer for Air Force, Navy, Marine, and Army laboratories

**Indiana University East**, School of Natural Sciences and Mathematics; Richmond, IN  
Assistant Professor, Microbiology and Biotechnology, August 2008-July 2012

- laboratory focus is on canine disease and aging/longevity
- teach undergraduates in the laboratory and in the classroom
- develop the B.S. Biotechnology degree program
- organize and facilitate departmental Microbiology lectures and laboratories
- manage laboratory of 6-8 undergraduates per semester
- maintain responsibilities of previously mentioned positions

**Texas A&M University**, Department of Veterinary Pathobiology; College Station, TX  
Faculty, Research Assistant Professor, August 2005- July 2008

- laboratory focus is on canine disease and aging/ longevity
- technical practices: molecular biology, molecular genetics, cell culture, oxidative stress assays
- teach undergraduates laboratory methods, techniques, and theory
- serve on graduate committees
- guest lecture in public venues, veterinary courses, and undergraduate courses
- manage laboratory of 4-6 undergraduates per semester

**Texas A&M University**, Department of Veterinary Pathobiology; College Station, TX  
Assistant Research Scientist, May 2002- August 2005

Postdoctoral appointment; funded by NIH F32 fellowship (KA Greer, PI)

- direct day to day activities of 13 member laboratory
- provide undergraduate and graduate student project guidance and instruction
- design and carry out aging and longevity studies and necrotizing meningoencephalitis studies
- establish largest database and biological specimen set for Pug Dog Encephalitis, including 4000+ samples and pedigrees
- establish canine DNA bank of 170+ independent breeds
- obtain grant funding for projects (as PI)
- write, edit, and publish manuscripts

**Eli Lilly and Company**, Investigative Toxicology; Greenfield, IN  
Visiting Scientist, June 2003- July 2003

- complete microarray project utilizing a proprietary Affymetrix canine oligo array
- isolate canine RNA from various tissues, synthesized cRNA, performed chip hybridization, evaluated resulting data
- write manuscript of results and publish in *Mammalian Genome*

**Genetic Savings and Clone**, College Station, TX  
Consultant, April 2002- May 2002

- instruct 6-8 graduate and undergraduate students in laboratory theory and techniques
- design and guide student research projects
- evaluate standard operating procedures, proposed new methodology to operate the laboratory more efficiently; significantly reduced laboratory operating cost

**Texas A&M University**, Veterinary Anatomy and Public Health; College Station, TX  
Graduate Research Assistant, January 1997- August 1999

- conduct independent research
- evaluate various populations of people for susceptibility to neural tube defect transmission
- evaluate the effects of folate supplementation on decreased risk of neural tube defects in susceptible murine models
- evaluate murine tissue expression of folate binding proteins and the reduced folate carrier
- establish an *in vitro* model for evaluating intracellular effects of oxidative stress
- train graduate students and professional students
- train and supervised technicians and undergraduates

**National Institutes of Health**, National Human Genome Research Institute; Bethesda, MD

Visiting Scientist, March 1998-July 1998

- conduct linkage analysis on F1 hybrid mice to correlate genes with developmental toxicology of Phenobarbital
- present research findings
- transfer technology to laboratory in Texas

**Texas A&M University**, Veterinary Anatomy and Public Health; College Station, TX  
Research Assistant II and Lab Manager, January 1995- December 1996

- isolate, sequence, and characterize the Reduced Folate Carrier 1 gene in the murine
- set up laboratory RNA isolation lab, experimental techniques, and standardized methodology

**Texas A&M University**, Veterinary Anatomy and Public Health; College Station, TX  
Research Assistant I and Lab Manager, December 1992- December 1994

- responsible for maintenance and propagation of laboratory plasmid stocks
- maintain murine breeding colony
- treat murine colony with targeted anticonvulsant drugs
- evaluate the efficacy of steripentol (STP) for FDA consideration
- train graduate, professional, and undergraduate students in laboratory techniques and murine colony maintenance

**Texas A&M University**, Veterinary Anatomy and Public Health; College Station, TX  
Student Research Assistant, August 1992- December 1992

- responsible for maintenance and propagation of laboratory plasmid stocks
- maintain murine breeding colony
- treat murine colony with targeted anticonvulsant drugs

**Texas A&M University**, Entomology, College Station, TX  
Student Research Assistant, December 1991- August 1992

- responsible for maintenance and propagation of laboratory plasmid stocks
- clone and subclone genes

## Teaching Experience:

**Prairie View A&M University**, Biology Department; Prairie View, TX

Assistant Professor: Microbiology and Biology, January 2014- present

- coordinate and oversee all Microbiology courses for non-Biology majors (professors, and 2 adjuncts)
- teach lecture and laboratory Microbiology courses
- maintain and set up Microbiology laboratory sections
- develop new laboratory curriculum
- teach general Biology for all Biology majors
- train students in research science, technology, and presentation

**Indiana University East**, School of Natural Sciences and Mathematics; Richmond, IN

Assistant Professor: Microbiology and Biotechnology, August 2008-2012

- coordinate and oversee all Microbiology courses and laboratories offered
- teach lecture and laboratory Microbiology 200 and 201 (introductory microbiology course for pre-health professional students)
- develop online Microbiology program
- teach lecture and laboratory Genetics 312 (introduction to Genetics for biology and pre-professional students)
- teach lecture and laboratory Introduction to Biotechnology T105
- teach Bioinformatics T201
- teach Biochemistry 341 (biological chemistry for upper level biological science students)

**Texas A&M University**, College of Veterinary Medicine; College Station, TX

Teaching Assistant: *Biochemical Genetics*, September 1999- December 2001

- lecture each semester
- offer tutorial lectures twice per week
- offer additional office hours for individual assistance
- write exam questions
- grade examinations and weekly quizzes

**Texas A&M University**, Department of Biochemistry and Biophysics; College Station, TX;

Teaching Assistant: *Genetics 301 Laboratory*, January 1996-May 1996

- lecture twice weekly
- write weekly laboratory evaluations and quizzes
- grade weekly laboratory performance and quizzes
- offer office hours for individual assistance

## Grant Awards:

**Summer Research Scholar Award (PI), PVAMU**

Cellular Senescence in correspondence with redox activity and longevity  
2015

**REU sponsor award (Mentor)**

Cellular proliferation and oxidative stress resistance  
2015

**Research Related Resource Grant (R24), NIH/NIA (co-PI)**

“Dogs as a Model System for Aging Research”  
2013-2015

**NIH/NIA, R15 AREA award (PI)**

Eukaryotic Mechanisms of Oxidative Stress and Aging  
2013-2016

**AKC-CHF, Grant No. 920 (PI)**

DRB, DQA, and DQB Gene sequencing and allele determination in the Pug Dog  
2009-2010

**Indiana University Summer Faculty Fellowship (PI)**

Biomarkers of Aging in *C. familiaris*  
2009

**AKC-CHF, Grant No. 640 (PI)**

Linkage Disequilibrium Analysis of Markers Associated with Pug Dog Encephalitis;  
2006-2008

**Texas A&M University, Vice President for Research Travel Award (PI)**

Preliminary examination of oxidative stress mechanisms of aging in *C. familiaris*;  
2005-2006

**NIH/NIA, F32 National Research Service Award (PI)**

Understanding Genetics of Aging: *Canis familiaris* model; 2003-2005

**Greater St. Louis Pug Dog Club, Research Grant Award (PI)**

Club award towards Transmission Analysis of Breed Specific Necrotizing Encephalitis  
in the Pug Dog: Collection Phase; 2002-2003

**AKC-CHF, Grant No. 2650 (Co-PI)**

Transmission Analysis of Breed Specific Necrotizing Encephalitis in the Pug Dog;  
2003-2004

**Pug Dog Club of Northern CA, Research Grant Award (PI)**

Club award towards Transmission Analysis of Breed Specific Necrotizing Encephalitis in  
the Pug Dog: Collection Phase; 2002-2003

**AKC-CHF, Grant No. 2501 (PI)**

Transmission Analysis of Breed Specific Necrotizing Encephalitis in the Pug Dog:  
Collection Phase; 2002-2003

**Publications:**

Gilmore KM, **Greer KA**. 2015 Why is the dog an ideal model for aging research?  
*Exp Gerontol* 71: 14-20.

Ziats MN, Rennert OM, **Greer KA**. 2014 Clonally Transmissible cancers. *PLoS  
Computational Biology*. Submitted.

**Greer KA**, Echchgadda I, Cerna C, Wilmink G. 2013. In: Bioeffects of Terahertz  
Energy. Chpts. 2-3. SPIE books.

Urfer SR, **Greer K**, Wolf NS. 2011. The curious case of canine cataract: new insights into  
aging in dogs. *J Vet Behav* 6(1): 99.

Pedersen N, Liu H, Millon L, **Greer K**. 2011. Dog leukocyte antigen class II-associated  
genetic risk testing for immune disorders of dogs: simplified approaches using Pug dog  
necrotizing meningoencephalitis as a model. *J Vet Diagn Invest*. 23(1):68-76. PMID:  
21217030

**Greer KA**, Hughes L, Masternak M. 2011. Connecting serum IGF-1, body size, and  
longevity in the domestic dog. *AGE* 33(3):475-83. PMID: 20865338

Urfer SR, **Greer KA**, Wolf NS. 2011. Age-related cataract in dogs: a biomarker for life  
span and its relation to body size. *AGE* 33(3): 451-60. PMID: 20607428

**Greer KA**, Wong AK, Liu H, Famula TR, Pedersen NC, Ruhe A, Wallace M, Neff MW.  
2010. Necrotizing meningoencephalitis of Pug dogs associates with dog leukocyte antigen  
class II and resembles acute variant forms of multiple sclerosis. *Tiss Ant* 76(2): 110-8.  
PMID: 20403140

**Greer KA**, Daly P, Murphy KE, Callanan JJ. 2010. Analysis of gene expression in brain  
tissue from Greyhounds with meningoencephalitis. *Am J Vet Res* 71(5):547-54. PMID:  
20433381

Barber RM, Li Q, Diniz PPVP, Porter BF, Breitschwerdt EB, Claiborne MK, Birkenheuer  
AJ, Levine JM, Levine GJ, Chandler K, Kenny P, Nghiem P, Wei S, Greene CE, Kent M,  
Platt SR, **Greer K**, Schatzberg SJ. 2010. Evaluation of brain tissue and/or cerebrospinal  
fluid with broadly reactive PCR for Ehrlichia, Anaplasma, Spotted Fever Group Rickettsia,  
Bartonella and Borrelia species in canine neurological diseases (109 cases). *J Vet Intern  
Med* 24(2):372-8. PMID: 20102497

- Greer K**, Schatzberg SJ, Porter BF, Jones KA, Famula TR, Murphy KE. 2009. Heritability and transmission analysis of necrotizing meningoencephalitis in the Pug. *Res Vet Sci* 86: 438-42. PMID: 19014875
- Young BE, Levine JM, Fosgate GT, de Lahunta A, Flegel T, Matiasek K, Miller A, Silver G, Sharp N, **K Greer**, Schatzberg SJ. 2008. Magnetic resonance imaging characteristics of necrotizing meningoencephalitis in pugs. *J Vet Intern Med* 23(3): 527-35. PMID: 19645838
- Levine JM, Fosgate GT, Porter B, Schatzberg SJ, **Greer KA**. 2008. Epidemiology of necrotizing meningoencephalitis in Pug Dogs. *J Vet Intern Med* 22(4): 961-68. PMID: 18647157
- Pine MD, **Greer KA**, Busbee D. 2007. Comparison of Reactive Oxygen Scavenging Systems between a Cetacean (DKN<sub>1</sub>) and a Porcine Renal Epithelial Cell Line (LLC-PK<sub>1</sub>). *Comp Biochem Physiol A Mol Integr Physiol* 147(2): 550-55.
- Greer KA**, Canterbury S, Murphy KE. 2006. Statistical analysis regarding the effects of height and weight on lifespan of the domestic dog. *Res Vet Sci* 82(2): 208-14. PMID: 16919689
- Greer KA**, Higgins M, Cox M, Ryan TP, Berridge BR, Kashtan CE, Lees GE, Murphy KE. 2006. Gene Expression Analysis in a Canine Model of X-linked Alport Syndrome. *Mammalian Genome* 17(9): 976-90. PMID: 16964446
- Greer KA**, Pine M, Busbee D. 2005. Development of an *in vitro* model of excess intracellular reactive oxygen species. *AGE* 27(2): 97-105. PMID 23598615
- Canterberry, SC\*, **Greer KA\***, Hitte C, Andre C, Murphy K. 2005. Aging-associated loci in *Canis familiaris*. *Growth, Development, and Aging* 69(2): 101-13; \*indicates equal authorship. PMID: 16671589
- Lundberg YW, Cabrera RM\*, **Greer KA\***, Zhao J, Garg R, Finnell RH. 2004. Mapping a chromosomal locus for valproic acid-induced exencephaly in mice. *Mamm Genome* 15(5): 361-69; \*indicates equal authorship.
- Greer KA**, Cargill EJ, Cox ML, Clark LA, Tsai KL, Credille KM, Dunstan RW, Venta PJ, Murphy KE. 2003. Digging up the canine genome – a tale to wag about. *Cytogenet Genome Res* 102(1-4): 244-48. PMID: 14970710
- Pine M, Schroeder M, **Greer K**, Hokanson R, Busbee D. 2003. Generation and Partial Characterization of a Transformed Cetacean Cell Line. *Aquat Toxicol* 67(2): 195-202.
- Barber RC, Bennett GD, **Greer KA**, Finnell RH. 1999. Expression patterns of folate binding proteins one and two in the developing mouse embryo. *Mol Genet Metab* 66(1): 31-9.

Barber RC, Lammer EJ, Shaw GM, **Greer KA**, Finnell RH. 1999. The role of folate transport and metabolism in neural tube defect risk. *Mol Genet Metab* 66(1): 1-9.

Barber RC, Shaw GM, Lammer EJ, **Greer KA**, Biela TA, Lacey SW, Wasserman CR, Finnell RH. 1998. Lack of Association between Mutations in the Folate Receptor- $\alpha$  Gene and Spina Bifida. *Am J Med Genet* 76(4): 310-17.

Finnell RH, **Greer KA**, Barber RC, Piedrahita JA. 1998. Neural tube and craniofacial defects with special emphasis on folate pathway genes. *Crit Revi Oral Biol Med* 9(1): 38-53.

**Greer KA**, Bonnen PE, Jimenez N, Lammer EJ, Lacey SW, Shaw GM, Finnell RH. 1995. Folate receptor gene variants within populations, and neural tube defect occurrence. *Teratol* 51(3): 162.

Finnell RH, **Greer KA**, Lammer E, Lacey S, Shaw G. 1994. Folate receptor gene variants and neural tube defect occurrence. *Am J Hum Genet* 55(3): 870.

Musselman AC, Bennett GD, **Greer KA**, Eberwine J, Finnell RH. 1994. Preliminary evidence of phenytoin-induced alterations in early embryonic gene expression in a mouse model. *Reprod Toxicol* 8(5): 383-95.

Bennett GD, **Greer KA**, Levy RH, Slattery J. 1993. Stiripentol protection from the teratogenic effects of phenytoin and carbamezapine. *Teratol* 47(5): 406.

#### *Abstracts:*

**Greer KA**, MM Masternak. 2009. Canine Correlates of Longevity. *Journal of Veterinary Behavior: Clinical Science and Research* (in review).

**Greer KA**, RH Finnell, W Pavan, LG Biesecker. 1998. Linkage mapping of a major susceptibility locus for valproic acid induced neural tube defects in the mouse. *American Journal of Human Genetics* 63(4): A1684.

**Greer KA**, JA Piedrahita, GD Bennett, B Oetama, RH Finnell. 1997. Expression of the murine folate binding proteins 1 and 2 and the reduced folate carrier gene. *American Journal of Human Genetics* 61(4): A993

Barber RC, GD Bennett, **KA Greer**, RH Finnell. 1997. Expression of folate binding proteins one and two in the SWV/Fnn mouse. *American Journal of Human Genetics* 61(4): A166.

**Greer KA**, J Piedrahita, B Oetama, R Barber, R H Finnell. 1996. Isolation and characterization of the reduced folate carrier in the murine system. *American Journal of Human Genetics* 59(4): A2137.



Barber RC, **KA Greer**, GM Shaw, CR Wasserman, EJ Lammer, RH Finnell. 1996. Screening methods for unknown polymorphisms: dideoxy fingerprinting (ddF) vs. single strand conformational polymorphism (SSCP). *American Journal of Human Genetics* 59(4): A212.

### **Invited Lectures:**

- 2016 International Aging Conference (Keynote lecture); Las Vegas, NV
- 2014 Associated Veterinary Clinics; Hempstead and Waller, TX
- 2011 Air Force Research Laboratory; Fort Sam Houston, TX
- 2010 Pug Dog Club of America National Championship; Mason, OH
- 2009 Capstone Course: Arriving at a Career in Academia and Science, Richmond, IN
- 2009 Wayne County Commission on Science and Biotechnology, Richmond, IN
- 2009 Canine Cognition, Aging & Neuropathology Conference, Ontario, Canada
- 2009 Greater Atlanta Pug Club, Atlanta, GA
- 2008 American College of Veterinary Internal Medicine Forum, San Antonio, TX
- 2008 American Aging Association, Boulder, CO
- 2007 Pug Dog club of America National Specialty, Harrisburg, PA
- 2005 Pug Dog Club of America National Specialty, San Antonio, TX
- 2005 Borzoi Club of the United States of America National Specialty, Dallas, TX
- 2004 Pug Dog Club of America National Specialty, Olympia, WA
- 2004 Veterinary Histology Metabolic Disease section, College Station, TX
- 2004 Pug Dog Club of Greater San Antonio Regional Specialty, San Antonio, TX
- 2003 Pug Dog Club of America National Specialty, Sturbridge, MA
- 2002 Old English Sheepdog National Specialty, Waco, TX
- 1996 March of Dimes Lecture Series, Bryan HS Child Development, Bryan, TX
- 1996 Genetics Laboratory lecture series, College Station, TX
- 1994 Texas Department of Health, Austin, TX
- 1994 Human Genetics Guest Lecture series, College Station, TX

### ***Conference Presentations:***

**2016 International Aging Conference; Las Vegas, NV**

Understanding the dog as a model of aging (Keynote presentation)

**125<sup>th</sup> Land-Grant System Research Highlights; Prairie View, TX**

Correlating cellular proliferation with age, size, and longevity (poster)

Student presenter: Keiva Gilmore

**American Aging Association, Marina del Rey, CA;**

Correlating cellular proliferation with age, size, and longevity (invited oral presentation)

June 2015

Student presenter: Keiva Gilmore

**Summer Research Experience Programs; Prairie View, TX**

Methods of Decreasing Infection to Improve Health (poster)

Does fibroblast proliferation correlate to organismal longevity (poster)

August 2015

Student presenters: Calissia Isabelle, Kalandria Washington

**Annual Biomedical Research Conference for Minority Students;** Seattle, WA;  
November 2015

Correlating cellular proliferation with age, size, and longevity (poster)

Student presenter: Asia Ballinger

**Annual Biomedical Research Conference for Minority Students;** San Antonio;  
November 2014

Correlating cellular proliferation with age, size, and longevity (poster)

Student presenter: Keiva Gilmore

**Nathan Shock Aging Center Conference on Aging;** Bandera, TX; October 2010  
Bringing Together IGF-1, Size, and Longevity in the Domestic Dog (poster)

**Nathan Shock Aging Center Conference on Aging;** Bandera, TX; October 2008  
Canine Correlates of Longevity (poster)

**Gordon Research Conference, Biology of Aging,** Ventura, CA; February 2006  
Deciphering Mechanisms of Aging in *C. familiaris*  
(Selected as one of ten from 75 posters)

**American Aging Association,** Oakland, California; June 2005  
Investigation of the Domestic Dog (*Canis familiaris*) for Determination of Genetic Factors in Longevity. (poster)

**Marine Biological Laboratories, Molecular Biology of Aging series,** Woods Hole, MA, August 2004;  
Optimization and utilization of the comet assay for evaluating DNA repair in mammalian aging. (oral presentation)

**Nathan Shock Aging Center Conference on Aging: Oxidative Stress,** Bandera, Texas; October 2004  
Understanding the genetics of aging: a canine model. (poster)

**American Aging Association,** St. Petersburg, Florida; June 2004  
Understanding the genetics of aging: a canine model (poster)

**International Workshop on Dog Genetics,** Uppsala, Sweden; May 2002  
Genetic Analysis of Canine X-linked Alport Syndrome in a Family of Mixed Breed Dogs. (oral presentation)

**National Institutes of Health,** Bethesda, Maryland; July 1998  
Linkage mapping of a major susceptibility locus for VPA-induced NTDs utilizing a whole genome scan of a backcross system. (oral presentation)

**American Association of Human Genetics,** Baltimore, Maryland; October 1997

Expression of the Murine Folate Binding Proteins 1 & 2 and the Reduced Folate Carrier Gene. (poster)

**March of Dimes and the American College of Medical Genetics**, Joint Clinical Meeting, San Antonio, Texas; March 1996  
Folate Receptor Gene Variants: Implication for Susceptibility to Neural Tube Defects. (oral presentation)

**March of Dimes Conference**, San Antonio, Texas, March 1994  
Neural Tube Defects and Folate Supplementation. (oral presentation)

### **Awards:**

**Research Mentor 2015, PVAMU**  
Biology Research Symposium award

**Certificate of Appreciation, PVAMU**  
Biology students' award presentation

**Research Mentor 2014, PVAMU**  
Biology Research Symposium award

**Ellison Medical Foundation, Invited New Investigator Award, 2009**  
Indiana University nominee for limited application national grant application

**Summer Faculty Fellowship, 2009**  
Indiana University system competition for summer research funding

**Cambridge Who's Who**, Executives and Professionals, 2007

**Gordon Research Conference, Biology of Aging**, Ventura, California; February 2006  
Poster Presenter: Oxidative stress mechanisms of aging in *C. Familiaris*

**Marine Biological Laboratories Course Fellowship; Molecular Biology of Aging, Special Topics Course**, August 2004  
Ellison Medical Foundation international competition for attending its fully sponsored lecture and laboratory course (three week course) Woods Hole, Massachusetts;

**Summer Institute on Aging Research Award**, Queenstown, Maryland; July 2004  
NIH/NIA national competition for attending its fully sponsored summer institute (one week course)

**NIH/NIA, National Research Service Award Postdoctoral Fellowship**, 2003-2005  
Understanding Genetics of Aging: *Canis familiaris* model

**Lexington Who's Who**, Association of Business Leaders and Professionals, 2000

**Gamma Sigma Delta**, The Honor Society of Agriculture 1998-2001

**Center for Environmental and Rural Health, Graduate Research Assistantship**  
1997-1998

**Professional Affiliations:**

Sigma Xi, Board of Directors Rice-TMC; 2015-present  
Sigma Xi; 2014- present  
American Aging Association; 2004-present  
American Association for the Advancement of Science; 1998-present  
American Association of University Women; 1996-present  
Graduate Women in Science; 1994-present  
Indiana Academy of Sciences; 2009-2013  
Texas Genetics Society; 2003-present  
Texas A&M University, Graduate Faculty; 2003-2008

**Professional Services:**

Journal editorial board: American Aging Association (*AGE*), Frontiers in Endocrinology and Aging (*Frontiers*), Austin Aging Research;  
Journal editor: *Genetics of Multifactorial Disease*  
Journal reviews: *Cytogenetic and Genome Research, Genomics, Mammalian Genome, American Journal of Veterinary Research, Research in Veterinary Science, British Journal of Nutrition, American Aging Association-Biological Sciences division*  
Proposal reviews: *Wellcome Trust, American Kennel Club-Canine Health Foundation*  
Texas Veterinary Diagnostic Center, Emergency Response Laboratory Reserve Force

**Mentorship:**

**Graduate** student committee

Sarah Zienko, Genetics; Assistant Professor at Stephen F. Austin State Univ

**Undergraduate** supervisor and research mentor

Audrey Jones, seeking B.S. Biology St. Thomas University

Kelli Kenter, B.S. Biology, applying for Veterinary School

Ceibrione , seeking B.S. Biology

Kalandria Washington, High School summer intern

Asia Ballinger, seeking B.S. Biology

Calissa Isabelle, seeking B.S. Biology

Leah Douglas, seeking B.S. Biology

Payton Gore, seeking B.S. in Biology

Shahryar Mansoor, seeking B.S. in Biology

Travis Williams, seeking B.S. in Biology

Alexandria Tally, seeking B.S. in Biology

Keiva Gilmore, B.S. Business, B.S. Biology; employed at MD Anderson laboratory

Stacy Linderman, B.S. Biotechnology; employed at Sherry Laboratories

Ryan Lacey, B.S. Biotechnology; attending Purdue University Pharmacy School  
Alisha Sintz, B.S. Biotechnology, attending PA school  
Amber Eve Surguy, B.S. Biology, adjunct lecturer at IUE  
Jay Dee, B.S. Biology; Chemical investigator at Ohio State  
Katherine Elizabeth Collins, B.S. Biology; Data Manager at Eli Lilly  
Kimberly Jones, B.S. Biomedical Science, DVM at Banfield  
Jennifer Wickline, B.S. Biomedical Science, DVM private practice  
Mary Wallace, M.S. Medical Technology, Laboratory Manager St. Joseph  
Regional Health Center

### **Community Involvement:**

**Houston Series of Dog Shows;** booth offered for PVAMU recruitment, research recruitment, community awareness

**Salem Lutheran School and Church;** State Basketball Championship admissions & concessions, 2015

**Breaking Barriers;** Scientific coordinator, 2014

**Katy Autism Support;** 2011-present

**Wayne County Community Technology Park;** 2008-2009

**Wayne County Career Day;** Scientific presenter 2008

**Leaps N Bounds Agility Center;** 1999- 2008

**Pug Dog Club of Greater San Antonio;** 2001- present

**Forest Ridge Elementary PTO;** 2005- 2006

**Pug Dog Club of America, 2005 National Organization Committee;** 2003-2005

**Brazos Valley Montessori School Parent Council;** 2003-2005

**Pug Rescue of Southeast Texas, PRoSET**

Member 1997-2004

Executive Board Member 1997-2002

Adoption Committee Chair 2000-2002

**Brazos Valley Montessori School; 2004 Spring Discovery Fair Chairman;** 2003-2004 (community-wide school fundraiser)

**Puppy Love Dog Obedience and Behavior Center, Agility Trainer;** 2002

**College Station Middle School Science Fair Judge;** 2001

**Brazos Valley Kennel Club;** 1998-1999