

**CURRICULUM VITAE 2015
KATHRYN TREMBICKI GRAVES, Ph.D.**

**Associate Clinical Professor
Department of Veterinary Science
108 Gluck Equine Research Center
University of Kentucky
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Personal Data

Date of Birth: 28 May 1958
Place of Birth: Scotch Plains NJ

Education

1985 Ph.D., Cornell University, Ithaca, NY
1980 BS, magna cum laude, Cook College, Rutgers University, New Brunswick, NJ

Honors/Awards/Fellowships

Cook College, Rutgers University Honors Program Candidate, 1979.
Marshall Scholarship Travel Award, Cornell University, 1982 and 1983.
Cornell University Graduate School Travel Award, 1983.
National Institutes of Health Training Grant, 1983-1984.
National Institutes of Health Training Grant Travel Award, 1984.
Sage Pre-doctoral Graduate Fellowship, Cornell University, 1984-1985.
Member- International Society for Animal Genetics, 1986 to present.

Appointments

Associate Clinical Professor DOE 100% Special Assignment	2015 to present
Assistant Clinical Professor DOE 100% Special Assignment	2010 to 2015
Director, Animal Genetic Testing and Research Lab	2005 to present
Assistant Research Professor	1987 to 2010
Supervisor-Red Cell Typing and Genetic Research Sections	
Animal Genetic Testing and Research Lab	
Research Specialist	1986 to 1987
Department of Veterinary Science, University of Kentucky, Lexington KY	
Graduate Research Assistant	1981-1983
Department of Genetics, Cornell University	

Professional Society Membership

International Society for Animal Genetics (ISAG)

1986 to present

Service

Client base: Over 40 contract registries for equine genetic testing services plus testing for private individuals and veterinary clinics

Parentage verification for registration

Genetic counseling

Special casework (DNA profile derivation from offspring, misidentified horses, database searches, etc)

Database: Over 500,000 accessions since 1986

Laboratory Information System Development

Worked with LIMSPRO to completely revamp the computer system for the lab and introduced online database access for client registries

Test development

Addition of 15 genetic tests including design and optimization since 2005

Service Lab Gross Income

FY15	\$294,617.42
FY14	\$303,570.07
FY13	\$318,975.23
FY12	\$323,690.06
FY 11	\$302,605.98
FY 10	\$445,529.01
FY 09	\$558,637.96
FY 08	\$805,113.16
FY 07	\$684,167.50
FY 06	\$535,256.00
Total:	\$4,572,162.39

Research Funding

Extramural Funding

Principal Investigator: Canine Health Foundation. Exploration of a single nucleotide polymorphism in the GALK1 gene as a potential marker for juvenile cataracts in the Boston Terrier, 2004. **\$5397.00.**

Principal Investigator: Canine Health Foundation. Galactokinase 1: A Candidate Gene For Juvenile Cataracts In Dogs, 2002-2003. **\$20,946.**

Co-Investigator: The Jockey Club, Development and characterization of horse-specific Single Nucleotide Polymorphisms (SniPs). EG Cothran and **KT Graves**, 1998. **\$30,500.**

Co-Investigator: Morris Animal Foundation-Syntenic Mapping of Coding Genes in New World Camelids, EG Cothran and **KT Graves**. 1997-1999. **\$28,500.**

Co-Investigator: Grayson Jockey Club Research Foundation, Gene Map of the Horse. E Bailey (PI), **KT Graves**, EG Cothran, TL Lear, L Coogle, co-investigators. 1996-1998. **\$97,332.**

Co-Investigator: Grayson Jockey Club Research Foundation, Gene Map of the Horse. E Bailey (PI), **Kathryn T. Graves**, EG Cothran, TL Lear, co-investigators. 1994-1996. **\$87,412.**

Intramural Funding

Principal Investigator: University of Kentucky Research Committee Grant. Linkage Study to Identify a Microsatellite Marker for Juvenile Cataracts in the Boston Terrier, 1997-1998. **\$3000.**

Private Funding

Principal Investigator: Whole genome scan for the late onset juvenile cataract gene in Boston Terriers. Boston Terrier Club of America Health Committee 2012. **\$5000**

Co- Investigator: Peruvian Paso Research Foundation. Genetics of DSLD (Degenerative Suspensory Ligament Desmitis). E.Gus Cothran and **KT Graves**. 2003-2005. **\$200,000**

Co-Investigator: Belgian Horse Society (\$30,000) and American Saddlebred Horse Association (\$32,000). Investigation of Laminin 5 as a Candidate Gene for Epithelogenesis Imperfecta. EG Cothran and **KT Graves**. 2002-2006. **\$62,000.**

Principal Investigator: Galactokinase as a candidate gene for cataracts in dogs. 1995-2000. Supported with private donations. **\$5791**

Grants applied for but not funded

Principal Investigator. Canine Health Foundation. Genome-Wide Scan To Identify Candidate Genes For Inherited Cataracts In Dogs, 2005-2007. **\$130,246**

Co-Investigator: USDA National research Initiative Competitive Grants Program, Development of a 250 Marker Comparative Syntenic Map for the Horse. E Bailey (PI) and **KT Graves**, 1996-1999. **\$360,465**

Principal Investigator: Morris Animal Foundation Identification of a genetic marker for the juvenile cataract gene in dogs using bulk segregant RAPD analysis, 1994-1996. **\$50,000 (approved, not funded)**

Publications

Dietert, RR, MA Qureshi, **KA Trembicki**. Developmental expression of chicken fetal antigen on peritoneal macrophage: Implications for hematopoietic differentiation. Proc. Soc. Exp. Biol. Med. 172:84, 1983.

Qureshi, MA, **KA Trembicki**, JV Jackson, PE Borenstein, RR Dietert. Quail fetal antigen (QFA): Identification and comparison with chicken fetal antigen. Develop. Comp. Immunol. 7:325, 1983.

Trembicki, KA, MA Qureshi, RR Dietert. Avian peritoneal exudate cells: A comparison of stimulation protocols. Develop. Comp. Immunol. 8:395, 1984.

Trembicki, KA, MA Qureshi, RR Dietert. Differentiation properties of avian tumor cell lines: Analysis using chicken fetal antigen and other markers. Cancer Research 44:2616, 1984.

Trembicki, KA, RR Dietert. Chicken developmental antigens: Analysis of erythroid populations with monoclonal antibodies. J Exp. Zoo. 235:127, 1985.

Trembicki KA, MA Qureshi, RR Dietert. Monoclonal antibodies reactive with chicken peritoneal macrophages: identification of macrophage heterogeneity. Proc Soc Exp Biol Med. 1986 Oct 183(1):28-41.

Qureshi MA, **KA Trembicki**, RR Dietert, LD Bacon. Chicken developmental antigens in 15I5-B-congenic lines. J Hered. 1986 Nov-Dec;77(6):435-40.

Dietert RR, MA Qureshi, WC Gause, **KA Trembicki**, JA Marsh. Detection of a macrophage population in the thyroids of obese strain chickens using monoclonal antibodies. Prog Clin Biol Res. 1987;238:109-23

- Goodloe, RB, RJ Warren, EG Cothran, SP Bratton, **KA Trembicki**. Genetic variation and its management applications in Eastern United States feral horses. *J. Wildlife Manage.* 55(3):412, 1991.
- Cummings, JF, A deLahunta, HO Mohammed, TJ Divers, B Valentine, BA Summers, BJ Cooper, DF Holmes, **KA Trembicki**. Equine Motor Neuron Disease: A new neurologic disorder. *Equine Practice.* 13(9):15, 1991.
- Lear , TL, **KT Graves**, RB Ennis. Identification of equine chromosomes in horse-mouse somatic cell hybrids. *Cytogen. and Cell Genetics.* 61:58, 1992.
- Cummings, JF, A deLahunta, BA Summers, HO Mohammed, TJ Divers, BA Valentine, **K Trembicki-Graves**. Eosinophilic cytoplasmic inclusions in sporadic equine motor neuron disease: an electron microscopic study. *Acta Neuropath.* 85:291, 1993.
- Mohammed, HO, JF Cummings, TJ Divers, B Valentine, A deLahunta, B Summers, BRH Farrow, **KA Trembicki-Graves**. Risk factors associated with Equine Motor Neuron Disease: A possible model for human MND. *Neurology* 43:966, 1993.
- Maury, WJ, S Carpenter, **KT Graves**, B Cheseboro. Cellular and viral specificity of Equine Infectious Anemia Virus *Tat* transactivation. *Virology* 200, 632-642, 1994.
- Bailey, E.G., **KT Graves**, EG Cothran, R. Reed, TL Lear, RB Ennis. Synteny mapping horse microsatellite markers using heterohybridoma panel. *Animal Genetics* 26: 177-180, 1995.
- Mellersh, CS, **KT Graves**, B McLaughlin, RB Ennis, L Pettitt, M Vaudin, KC Barnett. Mutation In *HSF4* Associated With Early But Not Late-Onset Hereditary Cataract In The Boston Terrier. *Journal of Heredity* 98(5):531-533, 2007.
- Graves, KT**, PJ Henney and RB Ennis. Partial Deletion of the *LAMA3* gene is responsible for hereditary junctional epidermolysis bullosa in the American Saddlebred Horse. *Animal Genetics* 40(1):35-41, 2009.
- Petersen JL, AK Rendahl, JR Mickelson, LS Andersson, EF Bailey, DL Bannasch, MM Binns, AS Borges, P Brama, EG Cothran, A Machado, O Distl, M felicetti, L Fox-Clipsham, **KT Graves**, G Guérin, B Haase, T Hasegawai, K Hemmann, EW Hill, T Leeb, H Lohi, MS Lopes, G Lindgren, BA McGivney, N Orr, MCT Penedo, R Piercy, KH Roed, OA Ryder, M Silvestrelli, JE Swinburne, T Tozaki, M Vaudini, CM Wade, ME McCue. Genome-wide analysis reveals selection for important traits in domestic

horse breeds. *PLoS Genet.* 2013; 9(1):e1003211. doi: 10.1371/journal.pgen.1003211. Epub 2013 Jan 17.

Petersen JL, AK Rendahl, JR Mickelson, LS Andersson, EF Bailey, DL Bannasch, MM Binns, AS Borges, P Brama, EG Cothran, A Machado, O Distl, M felicetti, L Fox-Clipsham, **KT Graves**, G Guérin, B Haase, T Hasegawai, K Hemmann, EW Hill, T Leeb, H Lohi, MS Lopes, G Lindgren, BA McGivney, N Orr, MCT Penedo, R Piercy, KH Roed, OA Ryder, M Silvestrelli, JE Swinburne, T Tozaki, M Vaudini, CM Wade, ME McCue. Genetic diversity in the modern horse illustrated from genome-wide SNP data. *PLoS One.* 2013; 8(1):e54997. doi: 10.1371/journal.pone.0054997. Epub 2013 Jan 30.

GenBank accessions

Canis familiaris galactokinase gene (*GALK1*). Complete codons. GenBank Accession AY267338. **KT Graves** and RB Ennis. 2003.

Equus caballus laminin alpha3 (*LAMA3*) gene, intron 25
gi|190684638|gb|EU780072.1|[190684638] **KT Graves** and PJ Henney.2008.

Equus caballus laminin alpha3 chain (*LAMA3*) gene, exons 23 through 28 and partial cds
gi|188535622|gb|EU704008.1|[188535622] **KT Graves** and PJ Henney. 2008.

Equus caballus chromosome 8 laminin alpha3 chain (*LAMA3*) gene, breakpoint region between intron 23 and intron 28 in JEB-affected Saddlebreds. LOCUS EU812567 5027 bp DNA linear MAM 19-JUN-2008. **KT Graves** and PJ Henney.

TPA_exp: *Equus caballus* laminin alpha3 chain (*LAMA3*) gene, exons 23 through 28 and partial cds. LOCUS BK006617 13459 bp DNA linear MAM 22-JAN-2009. **KT Graves** and PJ Henney.

Book Chapters

Dietert, RR, MA Qureshi, W Gause, **KA Trembicki**, J Marsh. Detection of macrophage populations in the thyroids of Obese Strain chickens using monoclonal antibodies. Avian Immunology; ed. WT Weber and DL Ewert. pp. 109-123: Alan R. Liss, Inc., NY, 1987.

Bailey, E, EG Cothran, **KA Trembicki**. Parentage Testing in Horses. Equine Reproduction; ed. JL Voss and AO McKinnon. pp. 626-630. Lea & Febiger, Malvern, Pa. 1993.

Graves, KT. Genetic Testing in Dogs. The Boston Terrier, by Michael and Beverly Staley. Howell Book Service, New York, NY 1995.

Tibary, A and **Graves, KT** Neonatal Isoerythrolysis. Equine Theriogenology Clinical Companion. Ed. Carla L. Carleton, pp 1042-1048. Wiley-Blackwell, 2011.

Graves, KT, Parentage Testing. Equine Theriogenology Clinical Companion. Ed. Carla L. Carleton, pp 713-718. Wiley-Blackwell, 2011.

Abstracts

Dietert, RR, **KA Trembicki,** MA Qureshi. Chicken fetal antigen as a differentiation marker on avian tumor cell lines. Oncodev. Bio. Med. AB2:A91, 1982.

Trembicki, KA, MA Qureshi, RR Dietert. Developmental restriction of chicken fetal antigen on activated peritoneal macrophage. Poult. Sci. 61:1557, 1982.

Qureshi, MA, **KA Trembicki,** RR Dietert. Chicken fetal antigen on normal and tumorigenic hematopoietic cells. Fed. Proc. 42(3):399, 1983.

Trembicki, KA, MA Qureshi, RR Dietert. Stimulation of avian peritoneal exudate cell populations: A comparative study. Poult. Sci. 62(7):1514, 1984.

Trembicki, KA, RR Dietert. Monoclonal antibody to an avian developmental antigen. Fed. Proc. 43(6):1772, 1984.

Dietert, RR, **KA Trembicki,** DP Hartwell, BF Sanders. Monoclonal antibodies to chicken fetal antigen: Identification of erythroid subpopulations. Tumor Biol. 1984.

Trembicki, KA, MA Qureshi, RR Dietert. Monoclonal antibodies to chicken macrophages: Identification of subpopulations. ISABR 20:114, 1986.

Cothran, EG, RB Goodloe, **KA Trembicki,** R Warren. Genetics of Barrier Island horses. ISABR 21:11, 1988.

Carroll, CS, EG Cothran, **KA Trembicki.** A BC phenotype in the Q blood group system in horses of feral origin. Animal Genetics 22:10, 1991.

Graves, KT, RB Ennis, TL Lear, N Raney. Isozyme production and enumeration of horse chromosomes in horse-mouse somatic cell hybrids. Animal Genetics 23:F17, 1992.

- Bailey, E, **KT Graves**, EG Cothran. Synteny mapping in the horse. Proceedings of International Conference on Comparative Gene Mapping in Terrestrial and Aquatic Vertebrates, 47, 1994.
- Bailey, E.G., **KT Graves**, E.G. Cothran, R. Reed, TL Lear, and RB Ennis, Gene mapping the horse using microsatellite markers and somatic cell hybrids. Meeting on Genetic Diseases in the Horse, Interlaken Switzerland, 1994.
- Graves, KT**, N Raney, R Ennis, I Coogle, R Reid, E Bailey, L Van de Goor, EG Cothran, G Guerin, L Skow, M Breen, K Bell, Equine gene mapping: Synteny mapping DNA markers. International Society for Animal Genetics, C069, Tours, France, 1996
- Raney, NR, **KT Graves**, EG Cothran, E Bailey, L Coogle. Synteny Mapping of the horse using a heterohybridoma panel. International Conference on the Status of Plant and Animal Genome Research. P325, San Diego CA, 1998.
- Graves, KT**, RB Ennis, P. Henney. Y. Long, L.B. Daugherty. Approaches to identifying a marker for juvenile cataracts in Boston Terriers. International Society for Animal Genetics, Auckland, New Zealand, 1998.
- Terry, R.R., NE Raney, **KT Graves**, LT Lieto, PJ Venta, SL Ewart, EG Cothran, EF Bailey, L. Coogle. Synteny mapping of the horse using universal mammalian sequence tagged sites of coding genes and a heterohybridoma panel. International Conference on the Status of Plant and Animal Genome Research. P219. San Diego CA 1999.
- Graves, KT** and RB Ennis. Comparison of GALK1 exon sequences in four breeds of dogs affected by juvenile cataracts. E004, pg.103. International Society for Animal Genetics, Minneapolis MN, 2000.
- Cothran, EG, **KT Graves** and R.Juras. Linkage disequilibrium analysis of Degenerative Suspensory Ligament Desmitis in the Peruvian Paso. 5th International Dorothy Russell Havemeyer Foundation Equine Gene Mapping Workshop, Kruger National Park, South Africa, 2003.
- Cothran, EG, **KT Graves**, R Juras and D Strong. Linkage disequilibrium analysis of degenerative suspensory ligament desmitis in the Peruvian Paso horse. D045, pg 91. International Society For Animal Genetics, Tokyo, Japan, 2004.
- Mellersh, CS, **KT Graves**, L Pettitt, OP Forman, M Vaudin, KC Barnett. Different Mutations Within A Single Gene Are Associated With Recessive And Dominant Forms Of Hereditary Cataract In Different Breeds Of Dog.

- Advances in Canine and Feline Genomics Conference III, Davis, CA, 2006.
- Graves, KT**, RB Ennis, LB Daugherty, SA Brooks. A SNP in the horse KIT gene as a new marker for the tobiano spotting pattern. D218, pg 23. International Society For Animal Genetics, Porto Seguro, Brazil, 2006
- Graves, KT**, PJ Henney and RB Ennis. A 6589 bp deletion in the *LAMA3* gene is associated with hereditary junctional epidermolysis bullosa (JEB) in the American Saddlebred Horse. 2229 International Society For Animal Genetics, Amsterdam, The Netherlands, 2008.
- McGee RB, Lear TL, **Graves KT**, Bailey EP. XY Sex Reversal in Mares. P628 Plant & Animal Genomes XVIII Conference, San Diego CA, 2010.
- Graves, KT** and PJ Henney. Evaluation of candidate genes for late onset hereditary juvenile cataract in the Boston Terrier. P5025 International Society for Animal Genetics, Edinburgh, Scotland, 2010.
- JL Petersen, AK Rendahl, JR Mickelson, LS Andersson, EF Bailey, DL Bannasch, MM Binns, AS Borges, P Brama, EG Cothran, A Machado, O Distl, M felicetti, L Fox-Clipsham, **KT Graves**, G Guérin, B Haase, T Hasegawai, K Hemmann, EW Hill, T Leeb, H Lohi, MS Lopes, G Lindgren, BA McGivney, N Orr, MCT Penedo, R Piercy, KH Roed, OA Ryder, M Silvestrelli, JE Swinburne, T Tozaki, M Vaudini, CM Wade, ME McCue. The Equine Genetic Diversity Consortium: an international collaboration to describe genetic variation in modern horse breeds. Dorothy Russell Havemeyer Foundation International Equine Gene Mapping Workshop. Chaska MN, 2011.
- JL Petersen, AK Rendahl, JR Mickelson, LS Andersson, EF Bailey, DL Bannasch, MM Binns, AS Borges, P Brama, EG Cothran, A Machado, O Distl, M felicetti, L Fox-Clipsham, **KT Graves**, G Guérin, B Haase, T Hasegawai, K Hemmann, EW Hill, T Leeb, H Lohi, MS Lopes, G Lindgren, BA McGivney, N Orr, MCT Penedo, R Piercy, KH Roed, OA Ryder, M Silvestrelli, JE Swinburne, T Tozaki, M Vaudini, CM Wade, ME McCue. Identification of Ancestry Informative Markers in the Domestic Horse. Plant and Animal Genome Conference (PAG XX), San Diego CA, 2012.
- Graves KT**, PJ Henney, RH Mealy, E Bailey, LB Daugherty, KL Davies and R Leach. Identifying Equine MHC Haplotypes with Microsatellites. P3025 International Society for Animal Genetics, Cairns Queensland, Australia, 2012.

Non-Refereed Publications

Graves, KT, Searching for the Juvenile Cataract Gene, **American Kennel Club Gazette**, May issue, pp. 86-88, 1994

Graves, KT, Juvenile Cataracts. **The Frenchie Forum**, Official publication of the French Bulldog Club of America. 11:2, pp 56-57, 2003.

Graves, KT, Genetic Disease In The Horse. *Journal of Equine Veterinary Science*, 26:6, p. 255, 2005.

Graves, KT, Producing Color, *Kentucky Mountain Saddle Horse News*, 12:2, p. 22, 2006.

Graves, KT, DNA Testing In Horses, *The Friesian*, Oct/Nov issue, pp 25-27, 2007.

Graves, KT, Neonatal Isoerythrolysis. *Equine Disease Quarterly* 19:1, 2010.

Graves, KT, Genetic Testing In Horses. *Asoarabes*: Official Publication of the Asociacion Colombiana de Criadores de Caballos Arabes (Arabian Horse Breeders of Colombia). Translation from original English by Andrew Barrett. 2011.

Graves, KT, Genetic Testing in Dogs: Uses and Misuses. *The Boston Quarterly*. pp. 7-10. Summer Issue 2011.

Graves, KT, DNA Testing in Horses. *Gypsy Horse World*, publication of the Gypsy Horse Registry of America, 12:1, 2014.

Professional Activities

Ad hoc grant reviewer- Canine Health Foundation, 1997, 1998, 2002, 2008, 2009.

Ad Hoc reviewer-*Journal of Heredity* 2005, 2012

Ad Hoc reviewer- *BMC Veterinary Research* 2014

Workshop Chair- Dog Genome Committee. International Society for Animal Genetics. 2004-2012.

Committee Member- Applied Genetics of Companion Animals Committee. International Society for Animal Genetics. 2010-2014.

Reviewer-Abstracts for International Society of Animal Genetics Conference XXX, 2006.

Meetings

International Society for Animal Genetics XXXIII, Cairns, Queensland, Australia. Poster presented. Workshop Chair. 2012.

International Society for Animal Genetics XXXII, Edinburgh, Scotland. Poster presented. Workshop Chair. 2010.

International Society for Animal Genetics XXXI, Amsterdam, The Netherlands. Poster presented, Dog Genome Map workshop Chair 2008.

International Society for Animal Genetics XXX, Porto Seguro, Brazil. Poster presented. Workshop Chair. 2006.

International Society for Animal Genetics XXIX, Tokyo, Japan. Poster presented. Workshop Chair, 2004.

International Society for Animal Genetics, XXVII, Minneapolis, MN. Poster presented. 2000.

International Society for Animal Genetics, XXVI, Auckland, New Zealand. Poster presented. 1998.

International Society for Animal Genetics, XXV, Tours, France, 1996. Poster presented.

First International Workshop on Gene Mapping in the Horse, Lexington, KY. 1995.

Molecular Genetics and Canine Genetic Health Conference, Florham Park, N.J., 1994.

International Society for Animal Genetics, XXIII, Interlaken, Switzerland, 1992. Poster presented.

International Society for Animal Genetics, XXII, East Lansing, MI 1990. Poster presented.

International Society for Animal Genetics, XXI, Torino, Italy, 1988. Poster presented.

University of Pittsburgh Human Genetics Conference, Pymatuning, PA, 1986.

International Society for Animal Blood Group Research (ISABR) XX, Helsinki, Finland, 1986. Poster presented.

International Society of Oncodevelopmental Biology and Medicine, XII Annual meeting, Houston, TX, 1984. Poster presented.

American Association of Immunologists, FASEB, ST. Louis, MO, 1984. Poster presented.

Poultry Science Association, College Park, MD, 1983. Paper presented.

NE-60 Regional Meeting-Genetic Basis of Resistance to Avian Disease. Ithaca, NY, 1982.

Poultry Science Association, Davis, CA, 1982. Paper presented.

Interuniversity Collaboration

Investigation of anti-red cell antibody involvement in stallion infertility. University of Pennsylvania, New Bolton Center, Kennett Square, PA. 1991.

Examination of potential genetic markers for Equine Motor Neuron Disease. John Cummings, PI. New York State College of Veterinary Medicine, Cornell University, Ithaca NY. 1991-1992.

Permissiveness of horse-mouse somatic cell hybrids for *Tat* transactivation by Equine Infectious Anemia Virus. Wendy Maury, PI. NIH, Rocky Mountain Labs, Hamilton, MT, 1993.

Permissiveness of horse-mouse somatic cell hybrids for infection and replication of Equine Infectious Anemia Virus. Susan Payne, PI. Case Western Reserve University, Cleveland, OH, 1993.

Committee Activity

Graduate Faculty- Associate member, 1988 to present.

Member- Search committee for Warren Wright Sr.-Lucille Markey Chair in Immunology, 1988-1990.

Member-Department of Veterinary Science Animal Resources Committee, 1988 to 1995.

Member-Department of Veterinary Science Appointments and Promotions Committee, 1992 to 1999.

Member-Albert and Lorraine Clay Fellowship Award Committee, 1995 to 2000.

Chair-Department of Veterinary Science Animal Pathology Building Safety Committee, 1996 to 2009.

BEAC Floor Leader-Department of Veterinary Science 2009 to present.

Member- Department of Veterinary Science Advisory and Strategic Planning Committee 2008-Present.

Member- Department of Veterinary Science Communications Committee 2007-Present.

Student Advising

Graduate- Nancy Raney, MS. Graduate, Major Advisor, 1994-1999.
Teri Lear, Ph.D. candidate, Advisory Committee member, 1993-1997.
Jennifer Leigh Myka, Ph.D.candidate, Advisory Committee member, 1994-1998.
Diane Strong, MS candidate, Advisory Committee Member, 2004-2005.
John Eberth, MS candidate, Advisory Committee Member, 2013.

Undergraduates

Brian York, Biotechnology Program. Project Advisor "Identifying a DNA marker for cataracts in a family of horses". 1997-1999.
Nancy Raney, Biotechnology Program. Project and academic advisor. 1990-1994. Recipient of the **1994 Oswald Research and Creativity program award in Biological Sciences** for the paper "Use of Horse-Mouse Somatic Cell Hybrids for Gene Mapping in the Horse"

Pre-veterinary advisor, 1994-2007

Additional Professional Activities

Presentation on "Horse Blood Typing at the University of Kentucky", to the Steward Accreditation class of the University of Louisville. 1990.

Officiating as judge at the State 4-H Horse Bowl Contest. University of Kentucky, Lexington, 1990.

1990 ITEC Conference-Presentation on Horse Blood Typing at the Kentucky Equine Research Foundation booth.

Officiating as judge at the State 4-H Horse Bowl contest, Louisville, 1992.

Presentation "Juvenile Cataracts-Potential for Genetic Testing" at the National Specialty Show of the Boston Terrier Club of America, 1993. Invited Speaker.

Elected Representative of the Boston Terrier Club of America at the AKC Parent Club Genetic Conference, Florham Park, NJ, 1995.

Officiated as a judge for the 4-H State Horse Demonstration Competition. Lexington, KY 1997.

Invited Speaker. Lexington Kennel Club. "Canine Genetics- Basic Tools for Dog Breeders". 1997.

Invited Speaker. Lexington Kennel Club. "The Dog Gene Map: Where is it Going?" 1999.

Officiating as judge at the State 4-H Horse Bowl contest, Lexington, KY 2004.

Presentation: Genetic Testing at the University of Kentucky Equine Parentage Lab. Presented to the Akhal-Teke Association of America, Lexington KY 2006.

Presentation: Genetic Testing at the University of Kentucky Equine Parentage Lab. Presented at the Horsemen Helping Horseman Education Event, Harrison County 4-H, Cynthiana KY 2007.

Presentation Genetic Testing at the University of Kentucky Equine Parentage Lab. Presented to the Gotland Pony Society of North America, Lexington KY 2007.

Presentation "The Quest for the EI Mutation: A Success Story" to the American Saddlebred Horse Association Board of Directors, Lexington KY 2007.

Presentation "Genetic Testing In Horses", Kentucky Breeders Short Course, Lexington KY 2010.

Presentation "Genetic Testing in Dogs: How to Use It, Not Misuse It" at the United States of America Coton de Tulear Club National Specialty Show, 2010.

Presentation "The University of Kentucky Animal Genetic Testing and Research Lab: 25 Years of Answering the Question "Who's Your (Horse's) Daddy?" April meeting of the Equine Forum, 2011

Presentation "The Genetic Toolbox: Beyond Answering The Question "Who's Your (Horse's) Daddy?". Friesian Horse Association of North America National Meeting. Lexington KY 2012.

Presentation "Why Is My Horse That Color?- Understanding coat color genetics". Kentucky Breeders Short Course. Lexington KY 2013.