

VITA

Tiffanie A. Brooks
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EDUCATION:

1. 1993 B.S. Texas Tech University. Animal Science
2. 1996 M.S. Texas Tech University. Animal Science.
3. 2000 DVM Texas A&M College of Veterinary Medicine.

PROFESSIONAL EXPERIENCE:

1. 9/2008-present Attending Veterinarian/Instructor, Texas Tech University, Lubbock, TX
2. 3/2007-8/2008 Clinical Veterinarian, Texas Tech University, Lubbock, TX
3. 1/2003 – 1/2008 Associate Veterinarian, Acres North Veterinary Hospital, Lubbock, TX
4. 6/2000-12/2002 Associate Veterinarian, Cleveland Veterinary Clinic, Cleveland, OK

LICENSES AND CERTIFICATIONS:

1. 2000- present Texas Veterinary License
2. 2000-2003 Oklahoma Veterinary License
3. 2000-present USDA Accredited Veterinarian
4. 2000-present Federal Controlled Substances Registration Certificate
5. 2000-present Texas Controlled Substances Registration Certificate
6. 2010 Certified for Trichomoniasis testing in bulls

MEMBERSHIP IN PROFESSIONAL AND HONORARY SOCIETIES:

Professional:

1. 2009 – present – Texas Society of Biomedical Research (TSBR) Board member
2. 2010- present – American Association of Laboratory Animal Science (AALAS)
3. 2000 – present – American Veterinary Medical Association (AVMA) member
4. 2008 – present- The American Society of Laboratory Animal Practitioners (ASLAP)
5. 2003 – present – South Plains Veterinary Medical Association member
6. 1996-2000- American Association of Bovine Practitioners
7. 1996-2001- American Association of Equine Practitioners
8. 1996-2000- Student Chapter of the American Veterinary Medical Association
9. 1997-1998- Veterinary Emergency/Critical Care Society
10. 1996-1998- Large Animal Emergency Team
11. 1995-1996- Techsan Cattlewomen's Association- Founding member
12. 1994-1996- American Society of Animal Science
13. 1994-1996- Graduate Student Association- Texas Tech University, Department of Animal Science
14. 1992- Secretary, Alpha Zeta Honorary Agriculture Fraternity

Honorary:

1. 2008-present- Gamma Sigma Delta, the Honor Society of Agriculture

HONORS AND AWARDS:

1. 2010-CASNR Instructor Award, Texas Tech University
2. 1996- Outstanding MS Graduate Student of the Year, Texas Tech University, Department of Animal Science
3. 1995- Gamma Sigma Delta, The Honor Society of Agriculture
4. 1992-1993- Dean's List, Texas Tech University
5. 1992- President's List, Texas Tech University
6. 1992- Houston Livestock Show and Rodeo Scholarship recipient

PUBLICATIONS

Refereed Journals: total published 6 , **in press** 1

Published:

1. McGlone, J.J., **T.A. Hicks**. 1993. Teaching Standard Agricultural Practices That Are Known To Be Painful. *J. Anim. Sci.* 71: 1071-1074.
2. McGlone, J.J., J.L. Salak-Johnson, R.I. Nicholson and **T.A. Hicks**. 1994. Evaluation of crates and girth tethers for sows: reproductive performance, immunity, behavior and ergonomic measures. *Applied Animal Behaviour Science.* 39:297:311.
3. **Hicks, T.A.**, J.J. McGlone, C.S. Whisnant, H.G. Kattesh, and R.L. Norman. 1998. Behavioral, Endocrine, Immune, and Performance Measures for Pigs Exposed to Acute Stress. *J. Anim. Sci.* 76: 474-483.
4. Fullwood, S., **T.A. Hicks**, J.C. Brown, R.L. Norman, J.J. McGlone. 1998. Floor Space Needs for Laboratory Mice: C56BL/6 Males in Solid-bottom Cages with Bedding. *ILAR J.* 39(1): 29-36.
5. McGlone J.J., **T.A. Hicks**. 2000. Farrowing hut design and sow genotype (Camborough-15 vs 25% Meishan) effects on outdoor sow and litter productivity. *J. Anim. Sci.* 78: 2832-2835.
6. Sutherland, M.A., B.L. Davis, P.J. Bryer, **T.A. Brooks** and J.J. McGlone. 2010. Comparison of different methods of local anesthetic administration on the behavior and physiology of piglets in response to castration. *Animal.* 4(12): 2071-2079.
7. Sutherland, M.A., B.L. Davis, and **T.A. Brooks**. 2012. The physiological and behavioral response of pigs castrated with and without anesthesia and/or analgesia. *J. Anim Sci.* Manuscript accepted.

Abstracts: total of 7

1. McGlone, J. J., **T. A. Hicks**, J. L. Salak, R. I. Nicholson and R. L. Norman. 1992. Crates and girth tethers for gestating and lactating sows: reproductive performance, behavior, immune function and ergonomics. *ASAS*.
2. McGlone, J. J., **T. A. Hicks**, E. Wilson, M. Johnston and D. McLaren. 1995. Reproductive performance of Camborough-15 (C-15) and an experimental crossbred line containing Meishan (Exp-94) in outdoor and indoor intensive pork production systems. *ASAS*.
3. **Hicks, T. A.**, T. Hall and J. J. McGlone. 1995. In vitro stress hormone effects on porcine natural killer (NK) cell activity. *ASAS*.

4. McGlone, J. J., **T. A. Hicks**, E. Wilson, M. Johnston and D. McLaren. 1995. Reproductive performance of Camborough-15 (C-15) and an experimental crossbred line containing Meishan (Exp-94) in outdoor and indoor intensive pork production systems. ASAS.
5. **Hicks, T.A.**, J.J. McGlone, C.S. Whisnant, H.G. Kattesh, and R.L. Norman. 1996. Behavioral, Endocrine, Immune and Performance Measures For Pigs Exposed to Acute Stress. ASAS. Rapid City, South Dakota.
6. Sutherland, M.A., P.J. Bryer, B.L Davis, **T.A. Brooks** and J.J. McGlone. 2009. Comparison of novel methods to alleviate the pain caused by castration in pigs. Proceedings of the 43rd International Congress of the International Society of Applied Ethology. Cairns, Australia.
7. **T.A. Brooks**, M.A. Sutherland, B.L. Davis and J.J. McGlone. 2010. Comparison of different analgesic treatments to reduce the pain of tail docking in pigs. International Pig Veterinary Society Congress. Vancouver, Canada.
8. K.K. Guatam, C.J. Cobb, B.S. Obeidat, M.L. Galyean, B.L. Miller, J.A. Davidson, K.L. Perfield, **T.A. Brooks**, M.A. Ballou. 2012. Influence of ionophore source and a proprietary nutrition supplement on the performance and rumen metabolism of Holstein calves previously fed a high plane of milk replacer. ADSA-ASAS meeting.

Technical reports: total of 5

1. McGlone, J. J., R. I. Nicholson, **T. A. Hicks**, J. L. Salak and R. L. Norman. 1992. Reproductive performance, behavior, immune function and labor needs for gilts and sows in gestation crates or girth tethers. Texas Tech University Animal Science Research Report.
2. McGlone, J. J., R. I. Nicholson and **T. Hicks**. 1992. Performance of pigs with “limited” feeder space. Texas Tech University Animal Science Research Report.
3. McGlone, J. J., J. L. Salak-Johnson, R. I. Nicholson and **T. Hicks**. 1993. reproductive performance of gilts and sows in gestation/lactation crates or girth tethers. Texas Tech University Animal Science Research Report.
4. McGlone, J. J., J. Smith, C. Fumuso and **T. Hicks**. 1993. Ceramic heater vs heat lamp: Litter performance and behavior. Texas Tech University Animal Science Research Report.
5. McGlone, J. J., **T. Hicks**, R. I. Nicholson and C. Fumuso. 1993. Feeder space requirement for split-sex or mixed-sex pens. Texas Tech University Animal Science Research Report.

Books: total of 1

1. **Brooks, T.A.** and B.L. Davis. Domestic Animal Anatomy. 2011. Great River Technologies. Preliminary edition.
2. **Brooks, T.A.** and B.L. Davis. Domestic Animal Anatomy. 2012. Great River Technologies. 1st edition.

PRESENTATIONS AND LECTURES: total of 2

1. July, 2010, Comparison of different analgesic treatments to reduce the pain of tail docking in pigs. International Pig Veterinary Society Congress, Vancouver, Canada.
2. September, 2011. Agriterrorism. Southwest Cattle Raisers Association meeting. Lubbock, Texas.

GRADUATE STUDENT COMMITTEES:

In progress:

Committee member of: total of 9

M.S.

1. Brittany Davis Completion date 5/2010
2. Dale Manley Completion date 5/2010
3. Adam Woodard Completion date 12/2010
4. Jennifer Martin Completion date 8/2010
5. Danica Jorganson Completion date 5/2011
6. Elizabeth Trumpower Completion date 5/2011
7. Kim Warren Completion date 8/2011

PhD.

1. Brittany Davis Anticipated completion date 2013
2. Avi Sapkota Anticipated completion date 2012

UNDERGRADUATE ADVISING:

1. Faculty advisor of the Tech Pre-Veterinary Society
2. Unofficially advise students interested in veterinary medicine and students during the veterinary school application process.
3. Conduct mock interviews annually for those students invited to interview for veterinary school.

TEACHING RESPONSIBILITIES:

1. ANSC 2303: Care and Management of Companion Animals; Fall
2. ANSC 3306: Animal Diseases; Spring
3. ANSC 2202: Anatomy of Domestic Animals- Lead instructor; Fall
4. ANSC 3308: Clinical Veterinary Science- Newly developed course; Summer I
Students will gain practical, clinical experience working with various species of animals. This course is to provide hands-on applications in various disciplines of veterinary medicine.

PROFESSIONAL DEVELOPMENT

1. Workshop in Laboratory Animal Medicine. North Carolina State University. 2012, Raleigh, NC.
2. Charles River Shortcourse, 2011, Boston, MA
3. AALAS National Meeting, 2010, Atlanta, GA
4. Costal Bend Veterinary Medical Association CE by the Sea Conference, 2010, Port Aransas, TX
5. Texas Animal Health Commission Veterinary Trichomoniasis Training, 2010, Lubbock, TX
6. United States Meat Export Federation (USMEF) Pork Tour- "Swine Diseases" 2009
7. Generic Training Seminars for new animal investigators (offered each semester)
8. American Association of Laboratory Animal Science (AALAS) National Meeting, 2009, Denver, CO
9. Scientists Center for Animal Welfare (SCAW) conference, 2008, San Antonio, TX
10. Advanced Institutional Animal Care and Use Committee (IACUC), 2007, Boston, MA
11. AALAS National Meeting, 2007, Charlotte, NC
12. Texas Society of Biomedical Research, Austin, TX
Research Transparency : Proactive Strategies for Community Outreach & Media Relations
13. Texas Branch AALAS, 2008, Galveston, TX
14. 2008-present- TTU Center for Biodefense, Law and Public Policy Faculty Member
15. 2009 – present – Texas Society of Biomedical Research (TSBR) Board member
16. Creative Educational Video: Production of DVD "Small Animal Anatomy & Physiology"

**FIVE YEAR SUMMARY OF TEACHING EVALUATIONS FOR
NAME Tiffanie Brooks**

Term/Class	Number of Students	Instructor Overall (Question #1) Mean	Availability (Question #2) Mean	Treated all Fairly (Question #4) Mean	Presented Clearly (Question #7) Mean
Spring 2007					
ANSC 2303	78	4.00	3.62	4.30	4.04
Fall 2007					
ANSC 2303	38	4.43	4.20	4.53	4.30
Spring 2008					
ANSC 3306	52	3.11	3.43	4.07	2.79
Fall 2008					
ANSC 2303	50	4.76	4.41	4.82	4.71
ANSC 2202	70	No evaluation	No evaluation	No evaluation	No evaluation
Spring 2009					
ANSC 3306	32	4.55	4.32	4.41	4.55
Summer I 2010					
ANSC 3308	12	No evaluation	No evaluation	No evaluation	No evaluation
Fall 2009					
ANSC 2303	50	4.55	4.27	4.55	4.48
ANSC 2202 001	31	4.36	4.11	4.43	4.29
002	32	4.79	4.66	4.83	4.62
003	32	4.52	4.48	4.71	4.64
Spring 2010					
ANSC 3306	34	4.88	4.40	4.72	4.72
Fall 2010					
ANSC 2303	65	4.76	4.50	4.82	4.74
ANSC 2202 001	122	4.52	4.06	4.64	4.55
002		4.47	4.29	4.53	4.47
003		4.88	4.88	4.88	4.88
Spring 2011					
ANSC 3306		4.54	4.50	4.58	4.54

Other Teaching Responsibilities

1. **ANSC 1401, 2305, 3303, 4401 and 4402**- General Animal Science, Introductory Horse Nutrition, Introductory Horse Management, Swine Production and Horse Production- Guest Lecturer
2. **LAW 6021**- Animal Law Seminar, Spring 2009
3. **ANSC 4001**- Special Problems in Animal Science
4. **ANSC 6001**- Teaching hours

GRANTS AND AWARDS: total funded \$ 279,715

Funded:

1. National Pork Board. \$71,127. Methods to reduce the pain associated with castration. M. Sutherland, J. McGlone, and **T. Brooks**.
2. National Pork Board. \$79,650. Developing best management practices for on-farm euthanasia of young pigs using carbon dioxide gas. M. Sutherland and **T. Brooks**.
3. Darden Foundation. \$52,000. Alleviating the pain associated with dehorning and castration in beef calves. M. Sutherland, **T. Brooks** and M. Ballou. 2008..
4. National Pork Board. \$76,938. Practical methods to reduce the pain associated with piglet processing. M. Sutherland, **T. Brooks** and H. Coetzee.

Pending:

1. National Pork Board. \$55,012. Using a pheromone to reduce social stress and improve gilt/sow reproduction: proof of concept. J. McGlone and **T. Brooks**.
2. USDA Strategic Plan for FY 2010-2015. Countermeasures to Biological and Chemical Threats to Livestock. Presley, S.M., G.P. Austin, M. Ballou, **T. Brooks**, G.P. Cobb, S.B. Cox, C.B. Dabbert, M. Galyean, P.S. Gipson, R.J. Kendall, J. Mueller, C. Salice, P.N. Smith, D.C. Straus. U.S. Department of Agriculture *Strategic Goal 4 – Ensure that All of America’s Children Have Access to Safe, Nutritious, and Balanced Meals*

Rejected:

1. National Pork Board. \$101,195. The Incidence of Salmonella ssp. Shedding in Pigs Fed Diets Supplemented with Lactic Acid Bacteria during the Growing/Finish Period. J.C. Brooks, J. N. Martin, **T. A. Brooks**, G. Loneragan, M. Brashears, C. Starkey. 2011.
2. NIH Recovery Act Limited Competition: Extramural Research Facilities Improvement Program (C06).
3. USDA. \$700,000. New indoor sow housing system that reduces stress among group-housed sows. **T. Brooks**, J. McGlone, M. Sutherland, D. Lie and L. Changzhi. Not Funded.
4. USDA. \$4.9 million. Countering Threats to Livestock Agriculture. Presley, S.M., G.P. Austin, M. Ballou, **T. Brooks**, G.P. Cobb, S.B. Cox, C.B. Dabbert, M. Galyean, P.S. Gipson, R.J. Kendall, J. Mueller, C. Salice, P.N. Smith, D.C. Straus. 2009.
5. USDA. \$2.9 million. Organic-Pasture, Pasture, and Indoor Pork Production Systems: Comparison of production, economics, environmental impact, animal welfare and food safety. J. McGlone, N. Whitley, C. Lyford, T. Callaway, F. Mitloehner, **T. Brooks**, G. Engdahl.
6. National Pork Board. \$120,000. Grouping Pregnant Sows: Uniform or Variable Groups. J. McGlone, **T. Brooks** and M. Sutherland.
7. National Pork Board. \$57,960. The Effect of Traditional and Novel Immobilization Techniques on Pork Quality. C. Brooks, J. Martin, M. Miller, M. Sutherland, **T. Brooks** and C. Alvarado.

8. William and Charlotte Parks Foundation. \$9,811. Assessing the acute and chronic stress response caused by toe clipping. M. Sutherland and **T. Brooks**. 2009.
9. USDA/CSRESS. \$352,118. Evaluating stress vocalization patterns as a measure of well-being in pigs: Using centrally administered CRF as a model. **T. Brooks**, J. McGlone and M. Sutherland. 2009.
10. USDA/CSRESS. \$371,689. Evaluation of practical and novel methods to alleviate the pain associated with castration of young pigs. M. Sutherland, **T. Brooks** and H. Coetzee. 2009. USDA/CSRESS. \$366,000. Efficacy of EU-compliant livestock trailers for pig transport and mechanisms of transport-induced stress responses. J. McGlone, **T. Brooks**, and M. Sutherland. 2009.
11. USDA/CSRESS. \$321,954. An alternative euthanasia approach to improve animal well-being at harvest. C. Alvarado, **T. Brooks**, C. Brooks, and M. Sutherland. 2009.
12. National Pork Board. \$101,374. A novel approach to increase the efficacy of the PRRS vaccine. M. Sutherland, and **T. Brooks**. 2008.
13. PCVAD Research Award Program. \$24,831. Stress-induced immunoenhancement of the circovirus vaccine to improve the control of porcine circovirus associated disease in swine. M. Sutherland, and **T. Brooks**. 2008.
14. National Cattlemen's Beef Association. \$75,000. The effect of calf-hood vaccination and morbidity on marbling development in finishing cattle. **T. Brooks**, C. Brooks, B. Johnson and M. Sutherland. 2008.
15. American College of Laboratory Animal Medicine Foundation. \$29,985. The effect of social environmental and enrichment on the well-being of laboratory housed pigs. M. Sutherland, P. Bryer and **T. Brooks**. 2008.

SERVICE TO PROFESSIONAL ORGANIZATIONS

State:

1. Texas Society of Biomedical Research (TSBR) (member since 2008.)
 - a. Board Member for a statewide, private non-for-profit organization whose mission is to promote and support responsible research and education in the biomedical sciences
 - b. Attend quarterly meetings

SERVICE TO:

UNIVERSITY:

1. Masked Rider Committee
2. Institutional Care and Use Committee
3. Center of Biodefense, Law and Public Policy Faculty member

Other members include, Richard Baker, JD, Jennifer Bard, M.P.H., JD, Daniel Benson, JD, Steven Berk, MD, Walter Huffman, JD, Michael Jones, Ph.D., Thomas Longoria, Ph.D, Allen McInnes, Ph.D., Richard Rosen, JD, Brian Shannon, JD, Victoria Sutton, M.P.A., Ph.D., JD, Barbara Williams, JD, Steve Pressley, Ph.D.

4. Consult with Principal Investigators on formulation of their Animal Use Form prior to submission to ACUC regarding surgical procedures, anesthesia, analgesia or euthanasia
5. Generic IACUC training for new animal investigators and students- offered each semester.
6. Rat Handling and Procedures, 2009. Presented to Dr. Sutherland's research group.
7. Mouse blood collection techniques, Dec. 2009. Presented to Dr. Wang's research group.
8. Sterile surgical techniques, Fall, 2009. Presented to Dr. Lado's research group.
9. Rat Handling and Anesthesia, 2011. Presented to Dr. Dormire's research group.
10. Rumen cannulation for Dr. Ballou's research program, October, 2011
11. Swine anesthetic procedural techniques, Spring 2011
12. Ventilator and anesthetic techniques training for Dr. Lado's group, September, 2011
13. Mouse venipuncture techniques, Dr. Paton's group, Spring, 2012.

DEPARTMENT:

1. Tech Pre-Veterinary Society Faculty Advisor

COMMUNITY:

1. Blarney Stone Equine 4-H Professional Speaker, February 2011.
2. Shallowater FFA Assisted in preparation of Vet Tech team for state Vet Tech contest, 2012.
3. 4H Roundup Superintendent and Judge of Vet Skills a Thon contest, Lubbock, TX, 2012.

CONSULTING:

1. TTUHSC: Ethicon Surgical Trauma training for residents. Anesthesiologist for 3 pigs undergoing various induced trauma in order for resident medical students to train in surgical repair. August, 2011