

CURRICULUM VITAE

Name: Laurie A. Jaeger
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July 20, 2007

Education:

The Pennsylvania State University	B.S.	1980	Animal Science
Purdue University	D.V.M.	1984	Veterinary Medicine
Purdue University	Ph.D.	1991	Veterinary Anatomy

Professional Experience:

Clinical: Mixed animal practitioner, Mostrom Animal Clinic, Manly, Iowa, 1984-1985.

Academic:

1985-1987 Visiting Instructor, Department of Veterinary Anatomy, Purdue University, West Lafayette, Indiana.

1987-1991 Graduate Instructor, Department of Veterinary Anatomy, Purdue University, West Lafayette, Indiana.

1991-1997 Assistant Professor, Department of Veterinary Anatomy and Public Health, Texas A&M University, College Station, Texas.

A&M Assistant Professor (joint appointment) Department of Animal Science, Texas University.

1997-2006 Associate Professor, Department of Veterinary Anatomy and Public Health, Texas A&M University, College Station, Texas.
Associate Professor (joint appointment) Department of Animal Science, Texas A&M University.

2006 - Professor, Department of Veterinary Integrative Biosciences (formerly Department of Veterinary Anatomy and Public Health), Texas A&M University, College Station, Texas.

Veterinary licenses (active): Texas (#10610)

Other: Completed 40h Basic Mediation Training, May 2007

Membership on University Faculties:

1991 - Member, Graduate Faculty, Texas A&M University

1992 - Member, Center for Animal Biotechnology, Institute for Biosciences and Technology, Texas A&M University

1998 - 2005 Member, Faculty of Toxicology, Texas A&M University

1995 - Member, Interdisciplinary Faculty of Reproductive Biology

1999 - 2001 Vice Chair, Interdisciplinary Faculty of Reproductive Biology

2001 - 2004 Chair, Interdisciplinary Faculty of Reproductive Biology

2000- Member, Center for Animal Biotechnology and Genomics, Institute for Biosciences and Technology, Texas A&M University

Professional Societies:

American Association for the Advancement of Science
American Association of Anatomists
American Association of Veterinary Anatomists
American Veterinary Medical Association
Society for In Vitro Biology
Society for the Study of Reproduction
Texas Veterinary Medical Association

Honor Societies: Alpha Zeta, Gamma Sigma Delta, Phi Zeta, Phi Kappa Phi

Teaching Awards and Honors:

1996-1997 Center For Teaching Excellence (CTE) Scholar for the College of Veterinary Medicine,
Texas A&M University, College Station, Texas

1997 Texas A&M Association of Former Students College-Level Distinguished Teaching Award

1999 Wiley Distinguished Teaching Professorship in Veterinary Medicine

2001 Texas A&M Association of Former Students Faculty Distinguished Achievement Award in Teaching

2004-2005 Center for Teaching Excellence Faculty Associate

2005 Texas Veterinary Medical Association Faculty Achievement Award for Outstanding Accomplishment in Teaching

2005 Presidential Professor for Teaching Excellence, Texas A&M University

2006 Piper Professor, Minnie Stevens Piper Foundation, San Antonio, Texas

Teaching Experience:

1985-1987 Department of Anatomy, School of Veterinary Medicine, Purdue University, West Lafayette, Indiana; Visiting Instructor; assisted in teaching Canine and Large Animal Gross Anatomy Courses for first-year veterinary students

1987-1991 Department of Anatomy, School of Veterinary Medicine, Purdue University, West Lafayette, Indiana; Graduate Instructor; assisted in teaching Histology and Canine and Large Animal Gross Anatomy to first-year veterinary students.

1991-1992 Department of Veterinary Anatomy and Public Health, Texas A&M University, College Station, Texas; assisted in Gross Anatomy I (Canine, VAPH 910) and Gross Anatomy II (Large Domestic Animals, VAPH 912) courses for first-year veterinary students.

- 1991 - 1999 Department of Veterinary Anatomy and Public Health, Texas A&M University, College Station, Texas; VAPH 485. Mentor and instruct approximately 1 -3 students per year in either a research project in my laboratory or a gross anatomy project.
- 1992-1993 Department of Veterinary Anatomy and Public Health, Texas A&M University, College Station, Texas; assisted in Gross Anatomy II (Large Domestic Animals, VAPH 912)
- 1994 - Department of Veterinary Anatomy and Public Health, Texas A&M University, College Station, Texas; Course coordinator (until 2003) and co-coordinator (2003 to present), Gross Anatomy II (Large Domestic Animals, VIBS (previously VAPH) 912. Plan and conduct lectures and laboratories for two sections of first-year veterinary students.
- 1996 - 1997 Center for Animal Biotechnology, Texas A&M University, College Station, Texas; ANSC 489 (Techniques in Animal Biotechnology). Lecture and laboratory (3h) on "Protein localization in single cells," Spring 1996, Fall 1996, Fall 1997
- 2003 Veterinary Journal Club (VTPP 948; 1h) Texas A&M University, College Station, Texas. Select articles and facilitate discussion for variable credit, elective course for veterinary students.

Competitive Funding for Teaching-related Projects:

Center for Teaching Excellence, Incentive Grant. "Porcine Anatomy Computer Program." L.A. Jaeger, PI. 1/1/94 - 12/31/95. \$1,560.

Center for Teaching Excellence. "Equine Lameness Computer Programs." L.A. Jaeger, PI. 9/1/96 - 8/31/98. \$5,000. Funding associated with CTE Scholar award listed above.

College of Veterinary Medicine Signature Program grant. "Computer-based Learning Programs for Equine Anatomy and Clinical Science." L.A. Jaeger, PI, with K. Carter, C. Farnsworth, A. Hoffman, C. MacFarlane, W. Moyer, J. Snell. 6/1/99 - 5/31/00. \$20,000.

Wiley Distinguished Teaching Professorship in Veterinary Medicine. Interactive Learning Programs for Veterinary Anatomy. \$5,000. Funding associated with Wiley Professorship listed above.

Texas A&M University Quality Enhancement Program, Phase I. A) An objective measure of content mastery across the first two years of the professional curriculum. B) Effects of the professional curriculum on students sensitivities to cultural diversity. D.T. Kochevar, PI; Jaeger, Co-I, with others. \$5,000. 2003-2004.

American Association of Anatomists, Outreach Grant. Increasing Awareness and Use of Microscopy and Imaging by Veterinary Scientists. L.A. Jaeger, PI, R.C. Burghardt, Co-PI. 10/01/03- 9/30/05. \$3,000.

Faculty participant in "Bridges to the Doctorate in Reproductive Biology" program, Fuller W. Bazer (PI), Jamie Laurenz (Co-PI), and Gary R. Newton (Co-PI), National Institute of Health, \$207,832, 09/01/06 - 08/31/09.

Current Research Support:

As Principal Investigator:

United States Department of Agriculture. "Integrated function of TGF β , matrix proteins, and integrins in porcine implantation" L.A. Jaeger, PI. 9/01/05 - 8/31/08. (\$360,000 total cost; \$288,000 direct cost).

Previous Research Support:

Extramural support (as PI or Co-PI):

National Pork Producers Council. "Transforming growth factors and intestinal epithelial renewal. L.A. Jaeger, PI. 7/91 - 10/92, \$14,381.

Houston Livestock Show and Rodeo. "Testicular Development in boars: role of EGF and TGF α ." L.A. Jaeger, Co-PI with Tom Welsh. 7/92 - 6/93, \$2500.

National Pork Producers Council. "TGF α and EGF receptor: in vivo role in testicular development in boars. L.A. Jaeger, Co-PI with Tom Welsh and Larry Johnson. 7/92 - 10/93. \$12,633.

United States Department of Agriculture. "Beta transforming and fibroblast growth factors in porcine embryonic development." L.A. Jaeger, PI. 9/15/94 - 9/30/97. \$150,000 (\$129,000 TDC).

United States Department of Agriculture, Formula Funds (1433). "Mechanisms of estrogenic mycotoxin-induced embryotoxicity in swine." L.A. Jaeger, PI. 3/1/96 - 9/30/98. \$49,510.

College of Veterinary Medicine, Texas A&M University, Enhancement Grant. "Estrogen and progesterone receptors in peri-implantation porcine conceptuses." L.A. Jaeger, PI, N.H. Ing, Co-PI. 10/1/96 - 9/1/98. \$30,000.

Texas Higher Education Coordinating Board, ARP/ATP. "Environmental estrogens and conceptus development: mechanisms of estrogen-induced toxicity," L.A. Jaeger, PI. 1/1/98 - 12/31/99. \$153,747.

United States Department of Agriculture. Role of fibroblast growth factor-7 in uterine biology and pregnancy in pigs" Fuller W. Bazer, PI, L.A. Jaeger, Co-PI. 9/01/00 - 8/31/02. \$190,000.

Extramural support (as Co-I):

United States Department of Agriculture. "Ontogeny of TGF alpha/EGF receptor gene expression during testicular maturation. T.H. Welsh, PI, L.A. Jaeger, Co-I, with others. 9/15/94 - 8/31/97. \$73,761.

Other research support (as PI or Co-PI):

Biomedical Research Support Grant. "An in vitro model to study mucosal renewal in the neonatal small intestine." L.A. Jaeger, PI. 7/91 - 2/92, \$2,796.

TAMU Research Development. "A polarized primary culture model to study enterocyte differentiation." L.A. Jaeger, PI. 3/92 - 8/92, \$3989.

CVM Research Enhancement. "EGF effects of structural differentiation of the enterocyte brush border." L.A. Jaeger, PI. 9/92 - 8/93, \$24,298.

USDA Animal Health Formula Funds (1433). "Capsaicin-mediated resistance to Salmonellosis in chickens: mechanisms of host response." L.A. Jaeger, Co-PI with Billy Hargis. 1992 - 1993. \$49,700.

TAMU Research Development. "Temporal expression of TGFβs and retinoid-associated proteins during intestinal cytodifferentiation." L.A. Jaeger, PI. 3/93 - 8/93. \$4,200.

USDA Animal Health Formula Funds (1433). "Mechanisms of intestinal lead absorption and transport." L.A. Jaeger, PI. 5/93 - 9/95. \$42,745.

Texas A&M University, Research Enhancement. "Non-steroidal anti-inflammatory drug effects on intestinal epithelial mitochondrial function. L.A. Jaeger, PI. 2/1/95 - 9/1/95. \$2,400.

Texas A&M University, Faculty Mini-Grant. "Indomethacin effects on intestinal epithelial glutathione metabolism. L.A. Jaeger, PI. 2/1/95 - 8/31/95. \$1,400.

Center for Environmental and Rural Health, Pilot Project. "Arginine synthesis in the fetal pig small intestine." G. Wu, PI; L. A. Jaeger, F.W. Bazer, Co-PI. 9/1/98 - 4/1/99.

College of Veterinary Medicine Signature Program. "Implantation in domestic animals: role of integrins." Co-I with F.W. Bazer, S.P. Brinsko, R.C. Burghardt, S.L. Rigby. 5/1/00 - 8/31/01, \$41,000. (Jaeger, PI for sub-project "Functional activation of porcine conceptus and maternal integrins by the TGFβ latency-associated peptide," \$17,500)

Other research support (as Co-I):

Texas A&M University Interdisciplinary Research Initiatives Program. "Differential display-polymerase chain reaction analysis of butyrate inducible genes in normal and transformed colonic cell lines. R. Chapkin, PI, L.A. Jaeger, Co-I, with others. 6/1/95 - 5/31/96. \$24,998.

Teaching and leadership workshops/courses attended (as participant):

Options in Medical Education, University of New Mexico, Feb 3-7, 1992; Seminars and participatory workshops on problem-based learning in a medical school curriculum. Albuquerque, New Mexico.

VAPH 685 - Education in a Veterinary Medical Environment. Fall, 1992. Audit of course which covered historical, conceptual, and practical aspects of education and learning styles, with emphasis on veterinary medical education, Texas A&M University, College Station, TX; Dr. W. Banks.

Evaluation of Student performance Workshop, May 26 & 27, 1993. Lecture and discussion covering alternative means by which to evaluate students in problem-based and traditional learning curricula. Conducted by Dr. Luis Branda, McMaster University, at Texas A&M University, College Station, TX.

Teaching Portfolio Workshop, June 14 - 18, 1993. Completed workshop which included discussions of teaching philosophies and strategies and the initial preparation of a document (portfolio) which can be used to document, as well as improve, teaching skills. Center for Teaching Excellence, Texas A&M University, College Station, TX.

Case-based Learning Workshop, January 13 - 14, 1995. Participation in workshop which includes lecture and discussion regarding case-based learning, as well as hands-on practice in conducting classroom discussions. Conducted by Rita Silverman and Bill Welty, Pace University; hosted by Center for Teaching Excellence, Texas A&M University.

From Mentor to Colleague-Development of Undergraduate Researchers, August 2, 1996. Participation in workshop on mentoring of undergraduate students in research, which was held in conjunction with Howard Hughes Medical Institute Intern (HHMI) Program Summer Undergraduate Research Symposium. Conducted by Center for Teaching Excellence and HHMI coordinators at TAMU. Texas A&M University, College Station, TX.

Learning in Small Groups, March 10 - 11, 1997. Participation in workshop which included lecture, discussion, and micro-teaching exercises. Conducted by Peter A. Cohen and William J. Babler, Baylor College of Dentistry; held at Texas A&M University.

Wakonse South 1999, April 9 - 11, 1999. Participation in Wakonse Conference on College Teaching, Camp Balcones Springs, Texas. Sponsored by The Center for Teaching Excellence and The Wakonse Fellows at Texas A&M University.

Case-based Learning in Basic Sciences, May 19-20, 1999. Participation in workshop which included lecture, discussion, and case development exercises. Conducted by William D. Hendricson, University of Texas Health Science Center at San Antonio; held at College of Veterinary Medicine, Texas A&M University.

Peer Review of Teaching Workshop, March 24, 2000. Participation in lecture and discussion-based workshop. Conducted by Dr. Dan Bernstein, University of Nebraska-Lincoln and Dr. Barbara Walvoord, University of Notre Dame; held at Texas A&M University.

Wakonse Conference on College Teaching, May 25 - 30, 2000. Participant in conference. Shelby, Michigan.

Pew Peer Review Project, August 2002- April 2003. Participant; organized through Center for Teaching Excellence, funded by the Pew Charitable Trust. Involved five universities in a project focused on peer review of teaching. Completed portfolio available at <http://www.unl.edu/peerrev/>

Veterinary Leadership Experience, June 1-6, 2005. Participant in experiential, interactive conference organized by Washington State University College of Veterinary Medicine; Spokane, WA and Idaho Falls, Idaho.

Teaching and leadership workshops/courses attended (as facilitator or invited participant):

Orientation Workshop - Changing the Faculty Reward Structure using a Self-Study Model to Document Teaching Effectiveness, October 8, 1999. Participant and discussion facilitator. Texas A&M University.

Teaching for the Diverse Classroom, October 26, 2003. Participant and invited discussion facilitator. Texas A&M University.

Large Class Teaching Symposium and Workshop, January 30, 2004. Invited panelist and participant, Texas A&M University.

New Faculty Orientation, "What I wish I had known my first year as a faculty member," August 24, 2004. Invited panelist and participant. Texas A&M University.

"Best Practices in Large Class Teaching: Techniques That Engage Students," October 21, 2004. Invited panelist and participant. Texas A&M University.

"Establishing Excellence: Focus on Teaching and Learning in the College of Veterinary Medicine and Biomedical Sciences," 2005 Agriculture Program Conference at Texas A&M University, January 13, 2005, invited presentation. Texas A&M University.

Faculty Teaching Academy Professor, academic year 2005-2006. Invited seminar and discussion facilitation, September 30. Center for Teaching Excellence, Texas A&M University.

Basic Mediation Training, May 16-18, 23-24, 2007. Invited participant in 40h conflict management and basic mediation training workshop sponsored by Dean of Faculties, Texas A&M University.

Research workshops/conferences:

Visited laboratories of Drs. Harley W. Moon and Paul L. Runnels to learn and practice technique of intestinal epithelial cell isolation. National Animal Disease Center, Ames, Iowa; November 9-11, 1987.

Visited laboratory of Dr. David Brown to observe and learn techniques for measuring epithelial ion transport in vitro. University of Minnesota, St. Paul, Minnesota; July 30-31, 1990.

Attended FASEB Summer Research Conference, GI Tract IV: Development and Repair - Cellular and Molecular Aspects, Copper Mountain, Colorado; August 4-9, 1991.

Attended conference on "Frontiers in Maternal, Fetal, and Neonatal Health," which was sponsored by the National Institutes of Health and the Molly Towell Perinatal Research Foundation, Cornell University, Ithaca, New York; August 9-12, 1996.

Completed "New England BioLabs Molecular Biology and PCR Summer Workshop", Northampton, Massachusetts, June 21 - July 4, 1998.

Attended "Write Winning Grants" workshop, conducted by Stephen W. Russell, College Station, TX, November 10-11, 2000.

Participated in and presented poster at Gordon Research Conference on “Reproductive Tract Biology,” Connecticut College, New London, CT; July 1-6, 2000.

Participant in Grantcentral Grant Writers’ Seminar and Workshop, David C. Morrison, TAMU. Fall ‘04 - Spring 05.

Graduate Students mentored (as Chair of Advisory Committee):

Joe Gillespie, M.S., Animal Science, 1993 (Co-chair)
Christopher Dekaney, M.S., Veterinary Anatomy, 1996
Anupma Gupta, Ph.D. Veterinary Anatomy, 1998
Christopher Dekaney, Ph.D., Veterinary Anatomy, 2001
Dana Massuto, Ph.D., In progress

PhD Thesis:

"Studies on Epidermal Growth Factor and the Porcine Upper Gastrointestinal Tract,"
Purdue University, 1991.

Teaching Programs- Computer-assisted Instruction:

Jaeger, L.A., McArthur N.H., Farnsworth C.C., Haughn M., Lamar C.H. 1996. Gross Porcine Anatomy. Available through TAMU CVM network.

Jaeger, L.A., Herman, C., Ruoff L., Farnsworth C.C. Equine distal thoracic limb - soft tissue anatomy. Available through TAMU CVM network.

Herman, C., Carter K., W. Moyer, Ruoff L., Farnsworth C.C. , Jaeger L.A. Equine distal thoracic limb - nerve block and joint injections. Available through TAMU CVM network.

Book chapters (teaching-related):

Jaeger L.A., Kochevar D. Teaching Large Classes in Veterinary Medicine. In: Engaging Large Classes, 2002, ed. C.A. Stanley and M.E. Porter, Anker Publishing Company, Inc., Boston, MA., Part Two, Ch. 5, (pp. 178-185).

Teaching-related reports (non-refereed):

Jaeger, L.A. Veterinary scientists learn about microscopy and imaging tools." 2004. American Association of Anatomists Newsletter, 13: 10-11

Publications:

Richardson R.C., Jaeger L.A., Wigle W. 1983. Treatment of systemic mycoses in dogs. Journal of the American Veterinary Medical Association 183:335-336.

Jaeger L.A., Lamar C.H., Bottoms G.D., Cline T.R. 1987. Growth-stimulating substances in porcine milk. American Journal of Veterinary Research 48:1531-1533.

Jaeger L.A., Lamar C.H., Turek J.J. 1989. Lectin binding to small intestinal goblet cells of newborn, suckling, and weaned pigs. American Journal of Veterinary Research 50:1984-1987.

Jaeger L.A., Lamar C.H., Cline T.R., Cardona C.J. 1990. Effect of orally administered epidermal growth factor on the jejunal mucosa of weaned pigs. American Journal of Veterinary Research 51:471-474.

Jaeger L.A., Lamar C.H. 1992. Immunolocalization of epidermal growth factor (EGF) and EGF receptors in the porcine upper gastrointestinal tract. American Journal of Veterinary Research 53:1685-1692.

Tellez G.I., Jaeger L.A., Dean C.E., Corrier D.E., DeLoach J.R., Williams, J.D., Hargis B.M. 1992. Effect of prolonged administration of dietary capsaicin on *Salmonella enteritidis* infection in leghorn chickens. Avian Diseases 37:143-148.

Tellez G.I., Dean C.E., Corrier D.E., DeLoach J.R., Jaeger L.A., Hargis B.M. 1992. Effect of dietary lactose on cecal morphology, pH, organic acids, and *Salmonella enteritidis* organ invasion in leghorn chicks. Poultry Science 72:636-642.

M^cElroy A.P., Manning J.G., Jaeger L.A., Taub M., Williams J.D., Hargis B.M. 1994. Effect of prolonged administration of dietary capsaicin on broiler growth and *Salmonella enteritidis* susceptibility. Avian Diseases 38:329-333.

Flood L.P., Carvan M.J., Jaeger L., Busbee D.L., Gatlin III D.M., Neill W.H. 1996. Reduction in hepatic microsomal P-450 and related catalytic activity in farm-raised red drum. Journal of Aquatic Animal Health, 8:13-21.

Jaeger L.A. 1996. Immunohistochemical localization of transforming growth factor alpha (TGF α) in suckling porcine intestine. Acta Anatomica 155:14-21.

Gupta A., Bazer F.W., Jaeger L.A. 1996. Differential expression of TGF β s (TGF β 1, TGF β 2, TGF β 3) and their receptors in peri-implantation porcine conceptuses. Biology of Reproduction 55:796-802.

Gillespie J.C., Jaeger L.A., Johnson L, Welsh T.H. Jr. 1996. Transforming growth factor alpha (TGF α) in testicular development of the prepubertal boar. Molecular Andrology 8:259-271.

Nolan C.J., Blackwell J.L., French J.T., Gardner F.C., Knabe D.A., Randel R.D, Jaeger L.A., Johnson L., Welsh T.H. , Jr. 1996. Use of neonatal porcine testis to study gonadotropin and growth factor control of steroidogenesis. Molecular Andrology 8:273-287.

Gupta A., Bazer F.W., Jaeger L.A. 1997 Immunolocalization of acidic and basic fibroblast growth factors in porcine uterine and conceptus tissues. Biology of Reproduction 56:1527-1536.

Dekaney C.M., Harris E.D., Bratton G.R., Jaeger L.A. 1997. Mechanisms of lead transport in the IEC-6 intestinal epithelial cells. Biological Trace Element Research 58:13-24.

Dekaney C.M., Bazer F.W., Jaeger L.A. 1997. Mucosal morphogenesis and cytodifferentiation in fetal porcine small intestine. Anatomical Record 249:517-523.

Gupta A., Ing N.H., Bazer F.W., Bustamante L.S., Jaeger L.A. 1998. Beta transforming growth factors (TGF β s) at the porcine conceptus-maternal interface. Part I: Expression of TGF β 1, TGF β 2, and TGF β 3 messenger ribonucleic acids. Biology of Reproduction, 59:905-910.

Gupta A., Dekaney C.M., Bazer F.W., Madrigal M.M., Jaeger L.A. 1998. Beta transforming growth factors (TGF β s) at the porcine conceptus-maternal interface. Part II: Uterine TGF β bioactivity and expression of immunoreactive TGF β s (TGF β 1, TGF β 2, and TGF β 3) and their receptors (Type I and Type II). Biology of Reproduction, 59:911-917.

Wu G., Flynn N.E., Knabe D.A., Jaeger L.A. A cortisol surge mediates the enhanced polyamine synthesis in porcine enterocytes during weaning. American Journal of Physiology, 279:R554-559, 2000

Dekaney CM, Wu G, Jaeger LA. Regulation and function of ornithine aminotransferase in animals. Trends in Comparative Biochemistry and Physiology 6:175-183, 2000 (review).

Dekaney CM, Wu G, Jaeger LA. Ornithine aminotransferase messenger RNA expression and activity in fetal porcine small intestine. Pediatric Research, 50:104-109, 2001.

Ka H, Jaeger LA, Johnson GA, Spencer TE, Bazer FW. Keratinocyte growth factor is up-regulated by estrogen in the porcine uterine endometrium and functions in trophoblast cell proliferation and differentiation. Endocrinology 142:2303-2310, 2001.

Johnson GA, Bazer FW, Jaeger LA, Ka H, Garlow JE, Pfarrer C, Spencer TE, and Burghardt RC Muc-1, integrin and osteopontin expression during the implantation cascade in sheep. Biology of Reproduction 65:820-828, 2001.

Jaeger LA, Burghardt RC, Bazer FW, Johnson GA, Ka H, Garlow, JE. Functional analysis of autocrine and paracrine signaling at the uterine-conceptus interface in pigs. Reproduction Supplement. 58:191-207, 2001(invited review).

Burghardt RC, Johnson GA, Jaeger LA, Ka H, Garlow JE, Spencer E, Bazer FW. Integrins and extracellular matrix proteins at the maternal-fetal interface in domestic animals. Cells, Tissues, Organs 172(3):202-17, 2002. (invited review).

Garlow JE, Ka H, Johnson GA, Burghardt RC, Jaeger LA, Bazer FW. Analysis of osteopontin at the maternal-placental interface in pigs. Biology of Reproduction 66:718-725, 2002.

Dekaney CM, Wu G, Jaeger LA. Gene expression and activity of enzymes in the arginine biosynthetic pathway in porcine fetal small intestine. Pediatric Research 53:274-280, 2003.

Styles DK, Tomaszewski EK, Jaeger LA, Phalen DN. Psittacid herpesviruses associated with mucosal papillomas in neotropical parrots. Virology 325:24-35, 2004.

Wu G, Jaeger LA, Bazer FW, Rhoads JM. Arginine deficiency in preterm infants: biochemical mechanisms and nutritional implications. Journal of Nutritional Biochemistry 15:442-451, 2004.

Jaeger L.A., *Spiegel AK*, Ing NH, Johnson G.A., Bazer F.W., Burghardt R.C. Functional effects of transforming growth factor beta on adhesive properties of porcine trophectoderm. Endocrinology, 146: 3933-3942, 2005 .

Ka H, Al-Ramadan S, Johnson GA, Burghardt RC, Spencer TE, Jaeger LA and Bazer FW. Regulation of fibroblast growth factor 7 expression in the pig uterine endometrium by progesterone and estradiol. Biology of Reproduction, 77:172-180, 2007.

Joyce MM, Burghardt JR, Burghardt RC, Hooper RN, Jaeger LA, Spencer TE, Bazer FW, Johnson GA. Pig conceptuses increase uterine interferon regulatory factor-1 (IRF-1), but restrict expression to stroma through estrogen-induced IRF-2 in luminal epithelium. Biology of Reproduction, 2007, in press, 10.1095/biolreprod.107.060939.

Wu G, Bazer FW, Davis TA, Jaeger LA, Johnson GA, Kim SW, Knabe DA, Meininger CJ, Spencer TE, Yin Y-L. Important roles for the arginine family of amino acids in swine nutrition and production. Livestock Science, in press, (invited review).

Italicized names indicate trainee directly supervised by L. Jaeger.

Manuscripts in review and preparation:

Dekaney CM, Wu G, Jaeger LA. Regulation of ornithine aminotransferase gene expression and activity by all-trans retinoic acid in Caco-2 intestinal epithelial cells. Journal of Nutritional Biochemistry, 2007, provisional acceptance, under revision.

Ing NH, *Massuto DA*, Jaeger LA. Estradiol up-regulates A+U-rich RNA binding factor 1 p45 binding to stabilizing regions within the 3' untranslated regions of estrogen receptor α mRNA. Journal of Biological Chemistry, submitted.

Jaeger LA, *Massuto D*, Joyce M, Hooper RN. A new technique for intrauterine infusion in swine, In preparation for submission to American Journal of Veterinary Research.

Published abstracts:

Jaeger L.A., Lamar C.H., Bottoms G.D., Turek J.J., Cline T.R. 1987. Postnatal differentiation of the porcine intestinal epitheliocyte. Anatomia Histologia Embryologia 17:87.

Jaeger L.A., Lamar C.H., Turek J.J. 1988. Epithelial glycoconjugates of the porcine small intestine: lectin binding patterns. Anat Rec 220:47A-48A.

Jaeger L.A., Lamar C.H. 1990. Immunohistochemical demonstration of epidermal growth factor in the porcine esophageal epithelium. Gastroenterology 98:A416.

Jaeger L.A., Lamar C.H. 1990. Direct effect of epidermal growth factor on suckling porcine jejunum. In Vitro Cell Dev Biol 26:51A.

Lamar C.H., Jaeger L.A. 1990. Esophageal glands as explant models for the upper gastrointestinal secretory system. In Vitro Cell Dev Biol 26:52A.

Jaeger L.A., Lamar C.H. 1996. Immunohistochemical localization of epidermal growth factor in the porcine upper gastrointestinal tract. (Presented July 1990) Anatomia Histologia Embryologia 25:208.

Lamar C.H., Jaeger L.A., Wessel A.D., Rhodes J.A. 1996. Fate of ingested epidermal growth factor in the porcine small intestine. (Presented July 1993) Anatomia Histologia Embryologia 25:229.

Manning J.G., McElroy A.L., Hargis B.M., Jaeger L.A. 1993 Increased enterocyte migration associated with *Salmonella enteritidis* in leghorn chickens. Poultry Sci 72 (Suppl 1):179.

Gillespie J.C., Jaeger L.A., Johnson L, Welsh Jr. T.H. 1993 Immunocytochemical localization of transforming growth factor alpha during testicular development of boars. Molec Biol Cell 4 (Suppl):108A.

Busbee D., Flood L., Jaeger L., Bielec P. 1994. Lipid peroxide-related reduction in microsomal P450 in the livers of animals fed a lipogenic diet. American Aging Association Symposium 24:1-6.

Jaeger L., Bustamante L., Haughn M. 1995. Beta transforming growth factors (TGF β s) and fetal porcine intestinal development. FASEB J 9:A831.

Khan S.A., Jaeger L., Huhtaiemi. 1997. Developmental expression of transforming growth factor- β (TGF- β 1, - β 2, - β 3) and TGF β receptors (I and II) in the rat testis. Biology of Reproduction 56 (Suppl 1):102.

Gupta A., Bazer F.W., Dekaney C.M., Ing N.H., Jaeger L.A. 1997. Expression of beta transforming growth factors (TGF β s) in the porcine peri-implantation uterus. Biology of Reproduction 56 (Suppl 1):142.

Glasser S.R., Jaeger L.A. 1997. Trophoblast differentiation as a tumor invasion paradigm: overview and perspective. Havemeyer Foundation Workshop on Trophoblast Differentiation, Sept. 7-10, 1997, Wets Calder, Edinburgh; R&W Publications, Ltd.

Dekaney CM, Ing NH, Bustamante L, Madrigal MM, Jaeger LA. 1998. Estrogen and progesterone receptors in peri-implantation porcine conceptuses. Biology of Reproduction 58 (Suppl 1):92.

Day WE, Varner DD, Jaeger LA, Ing NH, Burghardt RC. 1998. Regulation of endometrial connexin 43 by estrogen and progesterone in mares. Biology of Reproduction 58 (Suppl1):190.

Gupta A, Burghardt RC, Bazer FW, Jaeger LA. 1998. Beta transforming growth factor (TGF β 1) increases fibronectin expression in cultured porcine trophectoderm. Biology of Reproduction 58 (Suppl 1):192.

Dekaney CM, Wu G, Jaeger LA. 1999. Ornithine aminotransferase activity and mRNA expression in porcine fetal small intestine. FASEB J. 13:734.4

Kemper-Green CN, Carroll JA, Gillespie JC, Jaeger LA, Johnson L, Alberts D, Stocco DM, Welsh TH. 1999. Detection of steroidogenic acute regulatory (stAR) protein in the perinatal porcine ovary and testis. Proceedings of the 81st Annual Meeting of The Endocrine Society, p. 297.

Jaeger LA, Bustamante LS, Johnson GA, Bazer FW, Burghardt RC 2000. Functional activation of conceptus and maternal integrins. FASEB J 14:A783.

Jaeger LA, Burghardt RC, Johnson GA, Bazer FW. 2000. Activation of conceptus and maternal integrins by transforming growth factor beta latency associated peptide. Biology of Reproduction 62 (Suppl 1):281.

Johnson GA, Bazer FW, Jaeger LA, Spencer TE, Pfarrer C, Burghardt RC. 2000. Role of Muc-1, integrins, and extracellular matrix components in the implantation cascade in sheep. Biology of Reproduction 62 (Suppl 1):281.

Garlow JE, Ka H, Johnson GA, Jaeger LA, Burghardt RC, Bazer FW. 2000. Role of osteopontin during early pregnancy in pigs. Biology of Reproduction 62 (Suppl 1):282.

Ka H, Jaeger LA, Johnson GA, Spencer TE, Bazer FW. 2000. Regulation of keratinocyte growth factor expression and its function in the porcine uterus. Biology of Reproduction 62 (Suppl 1):297.

Bazer FW, Spencer TE, Johnson GA, Burghardt RC, Jaeger LA. 2001. Servomechanism in the ovine uterus for establishment and maintenance of pregnancy. Biology of Reproduction 64 (Suppl 1):90.

Kowalski AA, Vale-Cruz D, Zhang D, Jaeger LA, Michel FJ, Simmen FA, Simmen RCM. Estrogen receptor (ER)- β and estrogen (E)-regulated transcripts in porcine trophoblastic cells. Biology of Reproduction 64 (Suppl 1):280

Al-Ramadan SY, Johnson GA, Jaeger LA, Brinsko SP, Burghardt RC. 2002, Distribution of integrin subunits, Muc-1, and osteopontin in equine uterine epithelium and conceptuses during early pregnancy. Biology of Reproduction 66 (Suppl 1): 323.

Jaeger, LA, Johnson, GA, Burghardt RC, Bazer FW. 2002, Integrated roles of growth factors, integrins, and matrix proteins in conceptus development and implantation. Journal of Animal Science 80 (Suppl 1) 145.

Jaeger LA, Spiegel AK, Ing NH. 2004. Multiple effects of transforming growth factor beta (TGF β) on porcine trophectoderm adhesion. Biology of Reproduction, Special Issue:211.

Al-Ramadan SY, Ka H, Johnson G, Jaeger LA, Burghardt RC, Spencer TE, Bazer FW. 2006. Regulation of fibroblast growth factor 7 (FGF7) expression in the pig uterine endometrium by progesterone (P4) and estradiol (E2). Biology of Reproduction, 2006 Special Issue.

Joyce MM, Burghardt JR, Burghardt RC, Hooper RN, Jaeger LA, Johnson GA. (2006) Pig conceptus interferon (IFN) gamma may ablate uterine major histocompatibility complex (MHC) class I and beta 2-microglobulin (B2) expression at the maternal-placental interface. Biology of Reproduction, 2006 Special Issue.

Erikson D, Burghardt R, Jaeger L, Bayless K. (2007) Secreted phosphoprotein 1 isolated from uterine secretions promotes integrin-mediated adhesion of porcine trophectoderm cells. Biology of Reproduction, 2007, Special Issue.

Massuto D, Hooper RN, Kneese E, Johnson G, Burghardt R, Jaeger L. Intrauterine infusion of recombinant transforming growth factor beta latency-associated peptide disrupts porcine conceptus development. Biology of Reproduction, 2007, Special Issue.

Refereed Proceedings/Monographs:

Al-Ramadan SY, Brinsko SP, Rigby SL, Jaeger LA, , Burghardt RC. 2002, Analysis of MUC-1 and integrin subunit expression in equine uterine epithelium and trophectoderm. Theriogenology 58: 829-832.

Invited presentations – national/international meetings:

“Functional analysis of autocrine and paracrine signaling at the porcine uterine-conceptus interface,” presented at the Sixth International Conference of Pig Reproduction, June 2-4, 2001.

“Integrated roles of growth factors, integrins, and matrix proteins in conceptus development and implantation,” presented at the 2002 Joint Meeting of the American Dairy Science Association, American Society of Animal Science, and Canadian Society of Animal Science, Quebec City, Canada, July 21-25, 2002.

Invited presentations – other institutions:

"Integrated roles of TGF betas, integrins, and matrix proteins in porcine implantation." April 12, 2005, Department of Basic Medical Science, School of Veterinary Medicine, Purdue University, West Lafayette, IN.

Technical notes/commercial:

Photographs of immunohistochemistry samples (TGF β and bFGF) solicited and published in Santa Cruz Biotechnology Research Products catalog 1995-2000.

Scientific Grant Review Experience:

Ad hoc reviewer for USDA/NRICGP, Cellular Growth and Developmental Biology of Animals (1993-1995; 1997)

Ad hoc reviewer for USDA/NRICGP, Enhancing Reproductive Efficiency (1997,1998)

Ad hoc reviewer for Binational Agricultural Research and Development Fund (1998)

Ad hoc reviewer for USDA/NRICGP, Animal Reproduction (2001-2004)

Council for International Exchange of Scholars, Fulbright Specialist Reviewer, Veterinary Science (2005-2007)

Scientific Review for Professional Journals:

Board of Scientific Reviewers, American Journal of Veterinary Research (1994-1997)

Editorial Board member, Biology of Reproduction, 2000-2004

Ad hoc reviewer, American Journal of Veterinary Research (1990 -1993, 1997, 1998)

Ad hoc reviewer, Journal of the American Veterinary Medical Association (1992 - 1997)

Ad hoc reviewer, Biology of Reproduction (1993 - 1999, 2005-2006)

Ad hoc reviewer, Journal of Nutrition, (1996-2001)

Ad hoc reviewer, Journal of Endocrinology (2002)

Ad hoc reviewer, Reproduction (2002)

Ad hoc reviewer, Journal of Cellular Physiology (2006)

Ad hoc reviewer, Cellular and Molecular Life Sciences (2006)

Service:Departmental

Ad hoc committee to select departmental accountant, 1992

Ad hoc histology lab merger committee, 1992

Coordinator for anatomy 485 students, 1992 - 1994

Faculty Director, VAPH Histology Laboratory 1992 -1999

Committee on the Gross Anatomy Teaching Laboratory, Chair and liaison with participating contractors, Physical Plant, and engineer, 1999 - 2004

Search Committee, VAPH Microanatomist (Assistant/Associate Professor), Chair, 2000-2002

Search Committee, VAPH Gross Anatomist/Reproductive Biologist (Assistant/Associate Professor), Co-Chair, 2002-2003

Search Committee, VAPH Reproductive Biologist (Signature Program searches), 2004-2006

College

Participant in interview process for selection of veterinary students, 1992
Hospital Review Committee, 1992 - 1994
Veterinary Physiology Search Committee for Assistant Professor, 1993
Academic Progress Committee, 1VM, Spring semesters, 1994 - present
Veterinary Teaching Hospital Strategic Planning Committee, 1995
Ad hoc reviewer of Graduate Student Association Mini-grants, 1996
Academic Appeals Committee, 1997-2002
Disciplinary Committee, 1997-2002
Master Teachers Panel, 1997- 2004; Chair, 1999-2004.
Search Committee, Large Animal Medicine and Surgery, Tenure Track Faculty Position, 1998
Search Committee, VAPH Department Head, 1998-99
Curriculum Committee, 2000- ; Chair, 2004 - present
Search Committee, Bridges' Chair in Veterinary Medical Education, 2000-2001
Search Committee, Associate Dean for Professional Programs, 2004
Faculty Advisor, Student Chapter of the AVMA, TAMU 2004 - present
Center for Executive Leadership in Veterinary Medical Education, Advisory Committee member, 2005-2006
Search Committee, Associate Dean for Research and Graduate Programs, 2006
Search Committee, Associate Director in the Center for Executive Leadership, 2007

University

Presented lecture at 1992 Science and Technology Youth Symposium, March 7, 1992, Texas A&M University.
Participant in team-teaching of Summer Educational Enrichment Anatomy course, June 24, 1996, Texas A&M University.
Interdisciplinary Grant Review Panel, 1998-2000
Council of Master Teachers, 1999 - 2003
Steering Committee - Institutional Self-Study Model of Documenting Teaching Effectiveness. 1999-2000.
Faculty of Reproductive Biology Executive Committee, Vice Chair, 1999 - 2000
Faculty of Reproductive Biology Executive Committee, Chair, 2001-2004
Radiologic Safety Committee, 2002 – present
Participant in Center for Teaching Excellence Strategic Planning Retreat, May 2003
Center for Teaching Excellence Faculty Advisory Board, 2003 – 2007
CVM representative for Dual Career Liaison Committee, 2004 - present
University Curriculum Committee, 2004 - present
Faculty of Reproductive Biology, Membership committee, 2005 - 2007
Faculty of Reproductive Biology, Nominating committee, 2007-

Other Professional

Society for the Study of Reproduction, Local Arrangements Committee for Annual Meeting, Facilities and Scheduling Sub-committee, Co-Chair, 1998.

American Association of Veterinary Anatomists, Membership Committee, 1998-2006

Society for the Study of Reproduction, member of Editorial Board for Biology of Reproduction, 2000 - 2004

Council for International Exchange of Scholars, Fulbright Specialist Reviewer, Veterinary Science, 2005-2006

American Veterinary Medical Association, Council on Education (representing basic science), 2005 - 2011

Ad hoc planning committee for American Association of Veterinary Medical Colleges symposium on Clinical Competencies, to be held March 2008, Washington, D.C., 2007-

Trainee Sponsorship:

Veterinary students (Summer Research Fellowships):

Alice Runk, Summer 1992, 1993

Thomas Pierce, Summer 1992, 1993

John Manning, Summer 1992

Melinda Haughn, Summer, 1994

Linda Naranjo, Summer 1995

Elizabeth Rogers, Summer 1997

Aaron K. Spiegel, Summer 2003

Wendy Browning, Summer 2006

Under-represented student programs

Howard Hughes Medical Institute (HHMI) Undergraduate Research Intern, Monique Madrigal, Spring 1995 - 1998
Biomedical Science Research Experience (TAMU) student, Kamari Jenkins, Summer 1995
NIH-supported "Bridges to Graduate Degree" student, Heriberto Ramos, Summer 1995
HHMI Undergraduate Research Intern, Kamari Jenkins, Fall 1995 - 1996.
HHMI Undergraduate Research Intern, Cheryl Loudd, Spring - Fall 1997.
HHMI Undergraduate Research Intern, Julie Le, Fall 1998 - Spring 1999
Anakletic Laboratory Program in the Sciences Research Intern, Alana Casey, Summer 1999

Graduate Teaching Academy

Lisa Benjamin, Ph.D. student, Veterinary Anatomy and Public Health, 2004

Graduate Advisory Committee Service:

Guillermo Tellez, Ph.D., Veterinary Pathobiology, 1992
Jenna Blackwell, M.S., Animal Science, 1992
Jana Echols, M.S., Veterinary Anatomy, 1995
Paula Davis, M.S., Animal Science (Nutrition), 1996
Nick Flynn, Ph.D., Animal Science (Nutrition), 1997
Jianhu Zhang, Ph.D., Animal Science (Nutrition), 1997
Shyh-hwa Liu, Ph.D, Animal Science (Physiology of Reproduction), 1997
Susan Miller, Ph.D., Veterinary Anatomy, 1996
Wen-Chi Chang, Ph.D., Animal Science (Nutrition), 1997
Richard W. Hutchinson, Veterinary Anatomy, 1998
Nann Green, Animal Science, (Physiology of Reproduction), 1999
William Day, Veterinary Anatomy, 1999
Edgar Lichar Dillon, M.S., Animal Science (Nutrition), 1999
David J. Brookes, Physics, 1999
Mee Young Hong, Animal Science (Nutrition), 1999
Marcelle Armstalden, M.S., Animal Science (Physiology of Reproduction), 2000
Chen-Chen, M.S., Animal Science (Physiology of Reproduction), 2000
Allison Gray, M.S., Animal Science (Physiology of Reproduction), 2000
Kristin Taylor, M.S., Animal Science (Physiology of Reproduction), 2000
Napoleon F. Alejandro, Toxicology, 2001
Hak-hyun Ka, Animal Science (Physiology of Reproduction), 2001
Michelle Garcia, Animal Science (Physiology of Reproduction), 2002
Carol Swartz, Toxicology, 2004
Margaret Joyce, doctoral candidate, Veterinary Anatomy, in progress
Saaed Al-Ramadan, Ph.D, Veterinary Anatomy, 2006
Rita C. Hunsucker, M.A. (Equine Reproduction), 2006
Abigail Casillo, doctoral candidate (D.V.M, Ph.D; Veterinary Physiology), in progress

Graduate Council Representative

Lisheng Yang, Physics, 1991-92

Jianyong Xie, Physics, 1993 -96

Wolfgang Pittroff, Rangeland Ecology and Management, 1995 - 1997

Kathleen Clark, Curriculum and Instruction, 1997 - 1999

John Waldron, Geography, 1999 - 2001

Slavioa Djonovic, Plant Pathology, 2002-2003