

CURRICULUM VITAE

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EDUCATION

- 1998 Ph.D., Purdue University, School of Veterinary Medicine
- 1994 M.Sc., University of Wisconsin-Madison, Department of Animal Sciences
- 1988 DVM., University of Ankara, School of Veterinary Medicine, Turkey

PROFESSIONAL EXPERIENCE

- 2004-pres. Adjunct Assistant Professor of Obstetrics and Gynecology, University of Missouri School of Medicine
- 2004-pres. Assistant Professor of Veterinary Pathobiology, University of Missouri, College of Veterinary medicine
- 2002-04 Research Assistant Professor, University of Missouri, College of Veterinary medicine
- 1998-01 Research Associate at Indiana University School of Medicine, Department of Pediatrics and Obstetrics
- 1995-98 Doctoral research assistant at Methodist Hospital Cryobiology Research Institute and Purdue University, Department of Veterinary Clinical Sciences
- 1992-95 Graduate research assistant, University of Wisconsin, Department of Animal Sciences, Madison, Wisconsin
- 1989-92 Doctoral research and teaching assistant at The University of Ankara, School of Veterinary Medicine, Turkey

AWARDS AND HONORS

- 1998 Post - Doctoral fellowship sponsored by Harlan Sprague Dawley Inc. Indianapolis Indiana.
- 1998 GAMMA SIGMA DELTA; The Honor Society of Agriculture, Consumer & Family Sciences, and Veterinary Medicine.
- 1995 Doctoral fellowship sponsored by the Methodist Hospital of Indiana, Cryobiology Research Institute.
- 1992 Scholarship for the graduate study in the United States granted by The Council of Higher Education of Turkey

PUBLICATIONS

In preparation

1. Agca C, Seye C, Shivaji R, Weisman G, Chan A, **Agca Y**. Development of a novel transgenic rat model over-expressing the purinergic P2Y₂ nucleotide receptor using a lentiviral vector.
2. **Agca Y**, Agca C, Yu N, Weisman G and Seye C. P2Y₂ nucleotide receptor transgenic rats develop accelerated intimal lesions following cuff-induced arterial injury.
3. Uguz C, Varisli O, Agca C, and **Agca Y**. Effects of nonylphenol on rat sperm motility, mitochondrial membrane potential, acrosomal and chromatin integrity.
4. Evans TJ, Ganjam VK, **Agca Y**. Effects of donor age and prior exposure to vinclozolin on xenografts of postnatal porcine testicular tissue in immune-deficient mice.

Submitted

1. Agca C, Carter S, Fritz J, Walker LC, Levey A, Chan A, Lah JJ, **Agca Y** (2007). Transgenic rats producing amyloid protein precursor as Alzheimer's disease model; *Transgene and internal APP are regulated similarly*. BioMed Central Neuroscience.
2. Varisli O, Uguz C, Agca C, **Agca Y** (2007). Effect of chilling on rat sperm motility and acrosomal integrity in the presence of various extenders. Cryobiology .

3. Varisli O, Uguz C, Agca C, **Agca Y** (2007). Effects of various physical stress factors on rat sperm motility and acrosomal integrity. *J. Andrology*.

In Press

1. Varisli O, Uguz C, Agca C, **Agca Y** (2007). Motility and acrosomal integrity comparisons between electro-ejaculated and epididymal ram sperm after exposure to a range of anisotonic solutions, cryoprotective agents and low temperatures. *Animal Reproduction Science*.

Published

1. Baska KM, Manandhar G, Feng D, **Agca Y**, Tengowski M, Sutovsky M, Sutovsky P (2007). Presence and activity of the extracellular ubiquitin system in the mammalian epididymal fluid. *J Cellular Physiology* (Ahead of print).
2. Van den Abbeel E, Schneider U, Liu J, **Agca Y**, Critser JK, Van Steirteghem A (2007). Osmotic responses and tolerance limits of human in-vitro matured MII oocytes to changes in external osmolalities and oolemma permeability characteristics. *Hum Reproduction* 22:1959-1972.
3. Yang H, **Agca Y**, Cheng P, Yang J, Agca C, Chan AWS (2007). Enhanced transgenesis by intracytoplasmic injection of bald lentivirus. *Genesis* 45:177-183.
4. Seo D, **Agca Y**, Critser JK, Feng ZC (2007). Development of sorting, aligning, and orienting bull, mouse, and human motile sperm using inexpensive micro-fluidic device operated by hydrostatic pressure. *Microfluidics and Nanofluidics*.3: 561-570.
5. Bryda EC, Pearson M, **Agca Y**, Bauer B (2006). Method for detection and identification of multiple chromosomal integration sites in transgenic animals created with lentivirus. *Biotechniques* 41: 715-719.
6. **Agca Y**, Bauer B, Johnson D, Critser JK, Riley L (2007). Detection of mouse parvovirus in *Mus Musculus* gametes, embryos and ovarian tissues by polymerase chain reaction assay. *Comparative Medicine*. 57:10-15.
7. Mingxuan F, **Agca Y**, Critser JK and Feng ZC (2006). Vibration study of the piezo-driven pipettes immersed in viscous liquids. *J. Applied Physics*. 100 (7): Art. No. 074701

8. Spindler RE, Crichton B, **Agca Y**, Loskutoff, Critser JK, Gardner DK, Wildt DE (2006). Improved felid embryo development by group culture is modified but not lost with hetero specific companions. *Theriogenology* 66:82-92.
9. Men H, **Agca Y**, Riley L, Critser JK (2006). Improved survival of vitrified porcine embryos after partial delipitation through chemically stimulated lipolysis and inhibition of apoptosis. *Theriogenology*, 66: 2008-2016.
10. Men H, **Agca Y**, Critser ES, Critser JK (2005). Beneficial effects of serum supplementation during in-vitro production of porcine embryos on their ability to survive cryopreservation. *Theriogenology*, 64:1340-1349.
11. Men H, **Agca Y**, Mullen SF, Critser ES, Critser JK (2005). Osmotic tolerance of in vitro produced porcine blastocysts assessed by their morphological integrity and cellular actin filament organization. *Cryobiology*, 51:119-129.
12. **Agca Y**, Mullen SF, Liu J, Johnson-Ward J, Gould K, Chan A, Critser JK (2005). Osmotic tolerance and membrane permeability characteristics of Rhesus monkey (*Macaca mulatta*) Spermatozoa. *Cryobiology* 51:1-14.
13. **Agca Y**, Mullen SF, Liu J, Johnson-Ward J, Gould K, Chan A, Critser JK (2005). Osmotic properties of chimpanzee (*Pan troglodytes*) spermatozoa. *J. Andrology* 26:470-477.
14. Walters EM, Men H, **Agca Y**, Mullen SF, Critser ES, Critser JK (2005). Osmotic tolerance of mouse spermatozoa from various genetic backgrounds: acrosome integrity, membrane integrity, and maintenance of motility. *Cryobiology* 50:193-205.
15. Mullen SF, **Agca Y**, Critser JK (2004). Modeling the probability of MII spindle disruption in bovine oocytes as a function of total osmolality using logistic regression, and its application toward improved CPA addition and removal procedures. *Cell Preservation Technology*. 2: 145-155.
16. Mullen SF, **Agca Y**, Broermann DC, Jenkins CL., Johnson CA, Critser JK (2004). The effect of osmotic stress on the meiotic spindle of mature human oocytes, and the relevance to cryopreservation. *Hum Reproduction* 19:1148-54.
17. Woods J, Benson J, **Agca Y**, Critser JK (2004). Fundamental cryobiology of reproductive cells and tissues. *Cryobiology* 48:146-156.
18. Men H, **Agca Y**, Rutledge JJ, Critser JK. (2004). Apoptosis during the development of oocytes and pre-implantation embryos. *A.R.T and Science* 4:5-7.

19. **Agca Y**, Gilmore J, Byers M, Woods E J, Liu J and Critser JK (2002). Osmotic characteristics of mouse spermatozoa in the presence of extenders and sugars. *Biology of Reproduction* 67:1493-1501.
20. **Agca Y** and Critser JK (2002). Cryopreservation of spermatozoa in assisted reproduction. *Seminars in Reproductive Medicine*. 20:15-23.
21. Keskinetepe L, **Agca Y**, Gabriella, Pacholczyk A., Machnicki A, Critser JK (2001). Use of cryopreserved one-cell embryos for the production of transgenic mice. *Biology of Reproduction* 65:407-411.
22. **Agca Y**. Cryopreservation of oocytes and ovarian tissue (2000). *The National Academies, Institute for Laboratory Animal Research Journal* 41:207-220.
23. Pfaff RT, **Agca Y**, Liu J, Woods E, Peter AT, Critser JK (2000). Cryobiology of rat embryos I: determination of zygote membrane permeability coefficients for water and cryoprotectants, the development of improved cryopreservation methods. *Biology of Reproduction* 63:1294-1302.
24. Liu J, Woods E, **Agca Y**, Critser ES, Critser JK (2000). cryobiology of rat embryos II: A theoretical model for the development of interrupted slow freezing procedures. *Biology of Reproduction* 63:1303-1312.
25. **Agca Y**, Liu J, Critser ES, Critser JK (2000). The fundamental cryobiology of rat immature and mature oocytes: Hydraulic conductivity in the presence of Me₂SO, Me₂SO permeability, and their activation energies. *J. Experimental Zoology* 286:523-533.
26. **Agca Y**, Rutledge JJ, Liu J, Critser ES, Critser JK (2000). The Effect of osmotic stress on the developmental competence of germinal vesicle and metaphase II stage bovine cumulus oocyte complexes and its relevance to cryopreservation. *Molecular Reproduction and Development* 55:212-219.
27. **Agca Y**, Liu J, McGrath JJ, Critser ES, Critser JK (1999) Temperature-dependent osmotic behavior of germinal vesicle- and metaphase II stage bovine oocytes in the presence of DMSO in relationship to cryobiology. *Molecular Reproduction and Development* 53: 59-67.
28. **Agca Y**, Monson RL, Northey DL, Peschel DE, Schaefer DM, Rutledge JJ (1998). Normal calves from transfer of biopsied, sexed and vitrified IVP bovine embryos. *Theriogenology* 50: 129-145.
29. **Agca Y**, Monson RL, Northey DL, Mazni OA, Schaefer DM, Rutledge JJ (1998). Transfer of fresh and cryopreserved IVP bovine embryos: Normal calving, birth weight and gestation lengths *Theriogenology* 50: 147-162.

30. **Agca Y**, Liu J, McGrath JJ, Peter AT, Critser ES, Critser JK (1998). Membrane permeability characteristics of metaphase II mouse oocytes at various temperatures in the presence of Me₂SO. *Cryobiology* 36: 287-300.
31. **Agca Y**, Liu J, Peter AT, Critser ES, Critser JK (1998). Effect of developmental stage on bovine oocyte plasma membrane water and cryoprotectant permeability characteristics. *Molecular Reproduction and Development* 49: 408-415.

BOOK CHAPTERS:

1. Chan AW and **Agca Y** (2007). Transgenic Animal Models of Neurodegenerative Diseases. Sourcebook of Models for Biomedical Research. In P.M. Conn (Ed.) Humana Press, Pp 323-331.
2. **Agca Y** and Chan AW (2007). Transgenic Animals, Comparative Reproductive Biology. In Schatten H and Constantinescu GH (Eds):" Iowa State Press, a Blackwell Publishing Company Pp. 133-145.
3. **Agca Y** and Men Hongshen (2007). Gender Selection in Mammalian Semen and Pre-implantation Embryos. Comparative Reproductive Biology, In Schatten H and Constantinescu GH (Eds): Iowa State Press, a Blackwell Publishing Company. Pp.147-157.
4. **Agca Y** and Critser JK (2005). Assisted Reproductive Technologies and Genetic Engineering in Rats. The Laboratory Rats, second edition Suckow MA, Weisbroth SH and Franklin CL, Academic Press Pp. 165-190.
5. Critser JK, **Agca Y**, Woods E. (2002). Cryopreservation of immature and mature gametes. In Christopher J De Jonge and Christopher LR Barratt (Eds): "Assisted Reproductive Technology: Accomplishment and New Horizons" Cambridge University Press. Pp. 144-166.
6. Critser JK, **Agca Y**, Gunasena KT (1997). The cryobiology of mammalian oocytes. In Karow A and Critser JK (eds): "Reproductive Tissue Banking: Scientific principles" Academic Press. Pp. 329-357.

ABSTRACTS PRESENTATION AT THE INTERNATIONAL MEETINGS:

1. Uguz C, Varisli O, Agca C, **Agca Y**. Effects of nonylphenol on rat sperm motility, acrosomal integrity and mitochondrial membrane potential. *34th Annual International Embryo Transfer Society Meeting*. Denver, Colorado, USA Jan. 5-9, 2008.

2. Varisli O, Uguz C, Agca C, Green J, **Agca Y**. Motility and acrosomal integrity comparison of electro-ejaculated and epididymal ram sperm after exposure to various anisosmotic solutions, cryoprotective agents and low temperatures. *34th Annual International Embryo Transfer Society Meeting*. Denver, Colorado, USA Jan.5-9, 2008.
3. Agca C, Carter S, Fritz J, Walker LC, Levey A, Chan A, Lah JJ, **Agca Y**. Transgenic Rats Producing Amyloid Protein Precursor as Alzheimer's Disease Model; *Transgene and internal APP are regulated similarly*. *6th Leonard Berg Symposium Novel Therapies fro Protein Misfolding Disorders* Washington University School of Medicine, St :Louis, MO, USA Sept 28-29, 2007.
4. Varisli O, Uguz C, Agca C, **Agca Y**. Effects of Chilling on Rat Sperm Motility and Acrosomal Integrity in the Presence of Various Extenders. *44th Meeting of the Society for Cryobiology*, Calgary, Canada July 28- August 1, 2007.
5. Keskin-tepe L, Sher G **Agca Y**. Adamowicz M. Application of different oocyte vitrification protocols, laser assisted hatching, and temperature on post-warming survival of bovine oocyte. *63rd Annual meeting American Society for Reproductive Medicine* Washington DC, USA, October 13-17 2007.
6. Keskin-tepe L, Sher G Mukaido T, **Agca Y**. Effect of pre-vitrification assisted hatching, temperature variation and cryoprotectant selection on survival, fertilization potential and blastocyst generation of warmed human oocytes. *63rd Annual Meeting of American Society for Reproductive Medicine* Washington DC, October 13-17 2007.
7. Keskin-tepe L, **Agca Y**, Adamowicz M, Sher G. Effect of laser hatching on bovine oocytes before ultra rapid vitrification. *19th World Congress on Fertility and Sterility*. Durban, KwaZulu Natal, South Africa 4-30-2007.
8. **Agca Y**, Men H, Mullen SF, Riley LK, Critser JK. Porcine embryo quality produced by two embryo culture medias assessed by total cell number and time course of blastocyst hatching," *Reproduction, Fertility and Development* 18:185, 2006. *32nd Annual International Embryo Transfer Society Meeting*. Orlando, Florida, USA January 7-11 2006.
9. Men H, **Y. Agca**, Riley LK, Critser JK. Forskolin induced increase in lipolytic activity in porcine embryos produced in vitro. *Reproduction, Fertility and Development* 18:192, 2006; *32nd Annual International Embryo Transfer Society Meeting*. Orlando, Florida, Jan 7-11, 2006.
10. Duck-Bong S., **Y. Agca**, Critser JK, Feng ZC. Fabrication and Application of a Poly(dimethylsooxane) (PDMS) Microchannel, "*ASME conference*, Chicago, IL, November 5-10, 2006.

11. Evans TJ, Walters EM, **Agca Y**, Fangman TJ, Williams III F, Buff PR, Ganjam VK, Lutzeier E, Lesczynski K, Hess RA, Critser JK. The Effects of Subacute Oral Exposure to Vinclozolin on Reproductive Parameters in Pre-, Peri- and Post-pubertal Boars,” *MU Life sciences*, Columbia, MO USA. April 17-19, 2006.
12. Evans TJ, Walters EM, **Agca Y**, Buff PR, Williams III F, Sutovsky P, Fangman TJ, Ganjam VK, Hess RA, Keisler D and Critser JK. “Development of a Porcine Model for Postnatal Exposure to Endocrine Disrupting Chemicals,” *Gordon Conference*. Ciocco, Italy, June 4-9, 2006.
13. Evans TJ, Walters EM, **Agca Y**, Fangman TJ, Williams F, Critser JK, Hess RA “The Effects of subacute oral exposure to vinclozolin on reproductive parameters in peripubertal and post-pubertal boars,” *Society of Toxicology meeting* in New Orleans, LA. March 6-10 2005.
14. Men H, **Agca Y**, Critser JK. Pregnancy following transfer of vitrified porcine embryos vitrified in vitro. *42nd Annual Meeting of the Society for Cryobiology*. Minneapolis, USA July 23-27 2005.
15. Mullen SF, **Agca Y**, Critser JK. The permeability of the bovine mature oocyte to water and propylene glycol. *42nd Annual Meeting of the Society for Cryobiology*, Minneapolis, USA July 23-27 2005.
16. Critser JK, Riley L, Russell R, Davis T, Iannaccone P, Bauer B, **Agca Y**. Rat Resource and Research Center.” *Genetic Systems in the Rat XVth International workshop*, Copenhagen, Denmark September 9-12, 2004.
17. **Agca Y**, Mullen SF, Liu J, Johnson-Ward J, Gould K, Chan A, Critser JK. Osmotic Tolerance and Membrane Permeability Characteristics of Rhesus Monkey (*Macaca mulatta*) Spermatozoa. *The World congress of Cryobiology and Cryomedicine*. Beijing China, 316-317. July 15-19 2004.
18. Men H, **Agca Y**, Mullen SF, Walters EM, Critser ES, Critser JK. Flow cytometric assay of osmotic tolerance of mouse sperm acrosome from various genetic background. *The World congress of Cryobiology and Cryomedicine*, Beijing China, 49: 343. July 15-19 2004.
19. Kashuba C, Benson J, **Agca Y** and Critser JK. Comparison of membrane permeability characteristics of mouse embryonic stem cell lines *The World congress of Cryobiology and Cryomedicine*. Beijing China, July 15-19 2004.
20. Walters EM, Men H, **Agca Y**, Mullen SF, Critser ES, Critser JK. Osmotic tolerance of mouse spermatozoa from different genetic backgrounds. *The World Congress of Cryobiology and Cryomedicine*, Beijing China, 49:344, July 15-19 2004.

21. Critser JK, Riley L, Russell R, Iannaccone P, Bauer B, **Y. Agca**, "Rat Resource and Research Center: An update," *Cold Spring Harbor Meeting, Rat Genomics & Models*. Dec. 11-14, 2003.
22. **Agca Y** and Critser JK. Xenotransplantation of cryopreserved testicular tissue from neonatal GFP rats into athymic nude mice. *Cold Spring Harbor Meeting, Rat Genomics & Models*. December 11-14, 2003.
23. Men H, **Agca Y**, Mullen SF, Critser JK. Osmotic stress on the cellular actin filament organization of in vitro produced porcine embryos. *30th Annual International Embryo Transfer Society Meeting*. Portland, OR, January 10-14, 2004.
24. Mullen SF, **Agca Y**, Critser JK. Preliminary investigations into the effects of osmotic stress at physiologic temperature on the oolemma and morphology of the meiotic spindle in mouse oocytes. *39th Annual Meeting of the Society for Cryobiology* 43: 272. Breckenridge, Colorado - USA July 28-31, 2002.
25. **Agca Y**, Mullen SF. and Critser JK. Live birth after heterotopic autologous transplantation of fresh and cryopreserved immature rat ovarian tissue. *Theriogenology* 57: 596. *28th Annual International Embryo Transfer Society Meeting*. Foz Do Iguassu, Brazil, January 12-15, 2002.
26. Liu J, **Agca Y**, Mullen SF, Si W, Critser JK. Development of three-step protocol for cryo preservation of mouse oocytes. *Cryobiology* 43: 330-331, *38th Annual meeting of the Society for Cryobiology*, Edinburg, UK July 29- Aug 1, 2000.
27. **Agca Y**, Critser JK. Xenogeneic transplantation of fresh and cryopreserved rat ovarian tissue into athymic nude mice. Cold Spring Harbor, New York, *Physiological Genomics and Rat Models*, Dec 2-9, 2001.
28. Chan AW, **Agca Y**, Chong K, Neuber E, Critser JK, Schatten G. Rhesus ovarian tissue transplantation in to SCID mice. *American Association of Bioanalysts*, Miami, Florida March 2-3, 2001.
29. Keskinetepe L, **Agca Y**, Gabriella A, Pacholczyk A, Machnicki B, and Critser JK. Cryopreservation of pronuclear stage mouse embryos and its use in producing transgenic mice. *Theriogenology*, 53: 247. *26th Annual International Embryo Transfer Society Meeting*. Maastricht, Netherlands January 8-12, 2000.
30. Woods J, Liu J, **Agca Y**, Gilmore J, and Critser J.K. Murine spermatozoa cryopreservation: Development of a defined cryoprotectant medium," *Annual Meeting of the Society for Cryobiology*. France 1999.

31. **Agca Y**, Rutledge JJ, Critser JK. Developmental competence of immature and in-vitro matured bovine oocytes after exposure to various osmolalities. *Theriogenology* 49: 193. 24th Annual International Embryo Transfer Society Meeting. Boston, Massachusetts, January 18-20, 1998.
32. **Agca Y**, Liu J, Peter AT, Gao DY, McGrath JJ, Critser ES, ritser JK. Fundamental cryobiology of metaphase II mouse oocytes: Membrane permeability characteristics at various temperatures in the presence of DMSO. *J Fertility and Sterility*, Supp, September. Annual American Society for Reproductive Medicine Meeting. Cincinnati, Ohio, October 18-22, 1997.
33. **Agca Y**, Liu J, Peter AT, Critser ES, Critser JK. Cryoprotectant and water permeability of immature and in vitro matured bovine oocytes. *Theriogenology*, 47:340. 23rd Annual International Embryo Transfer Society Meeting. Nice, France, Jan 12-14, 1997.
34. **Agca Y**, Monson RL, Northey DL, Rutledge JJ. Post-thaw pregnancy rates comparison of vitrified and frozen in-vitro produced bovine embryos,” *Theriogenology*, 45:175. 22nd Annual International Embryo Transfer Society Meeting. Salt Lake city, Utah, January 7-10, 1996.
35. **Agca Y**, Monson RL, Northey DL, Rutledge JJ. Post-thaw survival and pregnancy rates of biopsied sexed and vitrified bovine IVF embryos. *Theriogenology*, 43: 153. 21st Annual International Embryo Transfer Society Meeting. Calgary, Canada, January 8-10, 1995.
36. **Agca Y**, Monson RL, Northey DL, Mazni AO, Rutledge JJ. Post-thaw survival and pregnancy rates of in vitro produced bovine embryos after vitrification. *Theriogenology*, 41:154. 20th Annual International Embryo Transfer Society Meeting. Melbourne, Australia, January 9-11, 1994.

MEMBERSHIP TO PROFESIONAL ORGANIZATIONS:

International Embryo Transfer Society (IETS)

International Society for Low Temperature Biology and Medicine (CRYOBIOLOGY)

GAMMA SIGMA DELTA; The Honor Society of Agriculture, Consumer & Family Sciences, and Veterinary Medicine

FUNDINGS:

Ongoing Extramural Funding:

1. Cell models for Alzheimer’s Disease: Lipids and related signaling pathways; NIH.
Role: Co-PI (Grace Sun-PI)
Funding period: 5/01/07 - 4/30/12

2. Characterization of lentiviral-derived transgenic rats expressing human amyloid precursor protein: Novel models of Alzheimer's disease. Alzheimer's Research Consortium
Role: PI
Funding period: 1/01/08 - 12/31/10
3. The use of gamete end embryo biotechnologies in animal production. Scientific and Technical Research Council of Turkey
Role: PI
Funding period: 1/01/08 - 12/31/10

Grants Completed:

1. Transgenic Rat Model of Alzheimer's Disease. Alzheimer Research Consortium.
Role: PI, Emory University Subcontract (Anthony Chan - PI)
Funding period: 6/1/2004 to 5/31/2007
2. Development of transgenic rat model of prostate cancer. MU-Research Board.
Role: PI
3. The effects of fescue endophyte exposure, heat stress and reduced feed intake on testicular and epididymal function in a rat model for fescue toxicosis. USDA AHFF,
Role: Co-PI, (Tim Evans -PI)
4. Analysis of the SMN/Gemin complex during development. Dept. of Veterinary Pathobiology
Role: Co-PI, Chris Larson-PI
5. Evaluation of the morphology and function of the male reproductive tract of peripubertal and post-pubertal swine and rats following subacute, exposure to the putative anti androgen, vinclozolin. Dept. of Veterinary Pathobiology
Role: Co-PI, Dr. Tim Evans-PI

COMMITTEES AND EDITORIAL DUTIES:

Departmental Committees

Graduate Program Affairs Committee (2005-2009)

University of Missouri- Columbia

Campus embryonic stem cell research oversight (ESCRO) committee (2006-2008)

Grant Review Committees

Ad Hoc reviewer of NIH / NCRR Comparative medicine study section

MU Research Board grant,

Ad Hoc Editorial Reviewer

Biology of Reproduction, Animal Reproduction Science, Reproduction in Domestic Animals, Reproduction, Fertility and Development, Molecular Reproduction and Development, Laboratory Animal, Journal of Andrology, Theriogenology, Cloning and Stem Cell, Cell and Tissue Research, and World Journal of Urology.