

SAMUEL D. PRIEN, PHD
CURRICULUM VITAE

PERSONAL DATA

Address: Department of Obstetrics and Gynecology, Texas Tech University Health Sciences Center, 3601 4th St Stop 8340, Lubbock, TX 79430

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EDUCATION

Texas Tech University: Ph.D. in Animal Science - Reproductive Physiology, 1991

Texas Tech University: M.S. in Botany - Plant Physiology, 1980

Texas Tech University: B.S. in Botany, 1978

SOCIETIES AND PROFESSIONAL ORGANIZATIONS

Sigma Xi (Associate Member)

American Society for Reproductive Medicine

Gamma Sigma Delta

Society for Assisted Reproductive Technology

American Association of Bioanalysis

North American Colleges and Teachers of Agriculture – Fellow

National Academy of Inventors – local senior member

CERTIFICATION

High-Complexity Clinic Laboratory Director - American Board of Bioanalysis

DISSERTATION TITLE

A Comparative Study of Calcium Utilization in Human and Porcine Spermatozoa

PROFESSIONAL EXPERIENCE

Primary Academic Appointments

Professor, Dept. of Obstetrics and Gynecology, Texas Tech University Health Sciences Center, 2005-present

Associate Professor, Dept. of Obstetrics and Gynecology, Texas Tech University Health Sciences Center, 1998-2005

Assistant Professor, Dept. of Obstetrics and Gynecology, Texas Tech University Health Sciences, 1992-1998

Faculty Associate, Dept. of Obstetrics and Gynecology, Texas Tech University Health Sciences Center, 1991-1992

Medical Research Assistant, Dept. of Obstetrics and Gynecology, Texas Tech University Health Sciences Center, 1988-1991

Medical Research Tech IV, Dept. of Obstetrics and Gynecology, Texas Tech University Health Sciences Center, 1987-1988

Manager Electron Microscopy Center, Dept. of Cell Biology and Anatomy, Texas Tech University Health Science Center, 1984-1987

Coordinator Electron Microscopy Laboratories, Dept. of Anatomy, Texas Tech University Health Science Center, 1982-1984

Electron Microscopy Tech II, Dept. of Anatomy, Texas Tech University Health Science Center, 1980-1982

Teaching Assistant, Dept. of Biological Sciences, Texas Tech University, 1979-1980

Research Assistant, Dept. of Biological Sciences, Texas Tech University, 1979

Other Academic Appointments

Departmental

Director Clinical Obstetrics and Gynecology Laboratories, Texas Tech University Health Sciences Center, 2010-present

Director of Research, Dept. Obstetrics and Gynecology, Texas Tech University Health Sciences Center, 2003-present

Director of Resident Research, Dept. of Obstetrics and Gynecology, Texas Tech University Health Sciences Center, 1992-present

PROFESSIONAL EXPERIENCE (cont.)

Other Academic Appointments **Departmental**

Co-Director Clinical Obstetrics and Gynecology Laboratories, Texas Tech University Health Sciences Center, 2001-2010

Director Assisted Reproductive Technologies Laboratory, Dept. of Obstetrics and Gynecology, Texas Tech University Health Sciences Center-Lubbock Campus, 1988-present

Clinical Research Coordinator, Dept. Obstetrics and Gynecology, Texas Tech University Health Sciences Center, 2001-2003

University System Wide

Member Graduate Faculty, Biotechnology, Texas Tech University Health Sciences Center, 2004-present

Joint Appointment, Professor- Member Graduate Faculty, Dept. Physiology, Texas Tech University Health Sciences Center, 2004-2014

Director Clinical Laboratory, Dept. of Obstetrics and Gynecology, Texas Tech University Health Sciences Center-Amarillo Campus, 2002-present

Joint Appointment, Professor- Member Graduate Faculty, Dept. Animal Science, Texas Tech University, 2000-present

Co-Director, Center for Cryobiology, Texas Tech University, 2000-2005

Adjunct Assistant Professor- Member Graduate Faculty, Dept. Animal Science, Texas Tech University, 1992-2000

Co-director Assisted Reproductive Technologies Laboratory, Dept. of Obstetrics and Gynecology, Texas Tech University Health Sciences Center-Amarillo Campus, 1995-'96

Other Academic Related Appointments

Off-site ART Laboratory Director, Practice of Dr. Sandra Bello, Odessa, TX, 2003-2012

Adjunct Assistant Professor- Member Graduate Faculty, Division of Agriculture, West Texas A&M University, 1996-present

Off-site ART Laboratory Director, Boone Hospital, Columbia, Missouri 1999-2004

Consulting Editor CEV Multimedia, Lubbock, TX, 2002-2003

PROFESSIONAL EXPERIENCE (cont.)

Commercialization and Industry Appointments

Chairman of the Board- Reproductive Solutions Inc., Lubbock, TX 2009-present

Director-The Technology Research Assistance Consortium, Lubbock, TX 2007-present

Consultant- Organ Transport Systems, Lubbock, TX, 2001-2008

Scientific Consultant, Embryonic Technologies, Austin Texas, 2004-2008

HONORS AND AWARDS

Local

1991- Animal Science Ph.D. Graduate Student of the Year Award, Texas Tech University

2001- Dean's Teaching Scholar, Texas Tech University Health Sciences Center

2004 - Ag Council Teacher of the Semester, TTU

2007 - Excellence in Resident Teaching Award, Dept. Ob/Gyn, TTUHSC

2008 - Dean's Unsung Hero Award for the Dept. Ob/Gyn, TTUHSC

2009 - President's Excellence in Teaching Award, TTU

2009 - Mentor 2009 1st Annual TTU Outstanding Thesis Award

2010 - Research Service Award, Dept. Ob/Gyn, TTUHSC, Amarillo

2011 – Outstanding Faculty Mentor, Center for Undergraduate Research, TTU

2012- Faculty Banner Barer August Graduation – TTU

2014- Raiders Who Rock – TTU

2015- Amarillo Regional Dean's Distinguished Service Award – TTUHSC

2015- Mentor 2015 Annual TTU Thesis Award (2nd place recipient)

2017- Senior Member TTUS Chapter of National Academy of Inventors

HONORS AND AWARDS (cont.)

Regional

1979 - Outstanding Student Paper Presentation, Arid Lands Section AAAS Southwest and Rocky Mountain Division Annual Meeting

1980 - Outstanding Student Paper Presentation, Masters Division, Texas Tech Chapter Sigma Xi Annual Meeting

1980 - Honorable Mention for Outstanding Student Paper Presentation, Arid Lands Section AAAS Southwest and Rocky Mountain Division Annual Meeting.

1989 - Student Travel Award, Third Mid-West Reproductive Colloquium

1991 - Honorable Mention for Outstanding Student Paper Presentation, Biomedical Section AAAS Southwest and Rocky Mountain Division Annual Meeting

2011- Champion of Women in Science, West Texas Association for Women in Science

National

1985 - Who's Who in Frontier Science and Technology (1st. edition).

2003 - Teaching Fellow, North American Colleges and Teachers of Agriculture

2004 - '05, '08 Who's Who in America

2004 - '05 Who's Who Among America's Teachers

2007 - Who's Who in American Education

2012 – American Society for Reproductive Medicine Star Award

2013 - American Society for Reproductive Medicine Star Award

2014 - American Society for Reproductive Medicine Star Award

2015 - American Society for Reproductive Medicine Star Award

2016 - American Society for Reproductive Medicine Star Award

2017 - American Society for Reproductive Medicine Star Award

2018 - Marquis Who's Who Albert Nelson Marquis Lifetime Achievement Award

HONORS AND AWARDS (cont.)

Commercialization and Industry

2017 - NSF Regional I-Corps Southwest Node, Reproductive Solutions Inc. (S.D. Prien, Inventor and Chairman of Board) selected finalist for National I-Corp Program

2017- NSF Regional I-Corps Southwest Node, Conception Solutions Inc. (S.D. Prien, Inventor and Chairman of Board) selected finalist for National I-Corp Program

2017- TTU ILaunch Competition Reproductive Solutions Inc. (S.D. Prien, Inventor and Chairman of Board) 2nd place

2017- TTU ILaunch Elevator Pitch Competition, Competition Reproductive Solutions Inc (S.D. Prien, Inventor and Chairman of Board), people's choice award

GRANTS

Local

1979 - Graduate School Summer Research Assistantship (Texas Tech University) S.D. Prien. Reproductive Control of Leaf Expansion in Cotton. \$700.

1989 - Institutional Seed Grant Texas Tech University Health Sciences Center. F.D. DeLeon, S.D. Prien and A. Alecozay. Prostaglandin production by endometriotic cells grown in culture. \$5,750.

1992 - Institutional Seed Grant Texas Tech University Health Sciences Center. S.D. Prien. In vivo and in vitro progesterone production from IVF patients. \$5256.

1994 - Institutional Seed Grant Texas Tech University Health Sciences Center. S.D. Prien. Use of human luteinized granulosa to screen for toxins to reproduction. \$9689.

1997 - Institutional Seed Grant Texas Tech University Health Sciences Center. S.D. Prien. Differences in the steroid pathway of cultured HLGC from ART patients. \$9079.

1999 - Dean's Seed Grant Texas Tech University Health Sciences Center. S.D. Prien, M.S. Canez, and S. Khan. Early progesterone levels and cycle outcomes following in vitro fertilization. \$19,962.

2000 - Audrey B. Jones Foundation/Department of Obstetrics and Gynecology. S.D. Prien D. Contreras, K.B. Porter, A. Jazayeri, J. Blanton, and J. San Diego. Use of a new freezing technology for cancer diagnosis and research. \$11,400.

2000 - Texas Tech University, S.D. Prien and J Blanton (Co-Directors). Establishment of a center for the study of cryobiology. \$150,000.

GRANTS (cont.)

Local

2002 - Texas Tech University College of Agriculture Sciences and Natural Resources, P. Cotter and S.D. Prien. Assessment of a unique freezing technology in cryopreservation of bovine semen. \$1,000.

2003 - Texas Tech University College of Agriculture Sciences and Natural Resources, Coalson W. Lacey, and S.D. Prien. Cryogenic freezing of multi-layer porcine skin tissue. \$1,000.

2008 - TTU Commercialization Accelerator Fund. S.D. Prien and L. Penrose. An inexpensive means of semen selection based upon physiological parameters. \$24,000.

2010 - TTU Commercialization Accelerator Fund. S.D. Prien and L. Penrose. Studies in the commercialization of reproductive technologies. \$31,000.

2011-TTUHSC Quality Enhancement Plan. L Brice S.D. Prien and L Penrose. Teen Straight talk: A team approach to educating the youth of Lubbock. \$2500

2012- Laura W. Bush Institute for Women's Health/University Medical Center Seed Grant. S.D. Prien and L. Penrose. Development of a Non-Invasive Means of Evaluating Human Embryo Development Ex Vivo. \$14,820.

2012- TTUS Office of Commercialization--Commercial Development Grant. S.D. Prien and L. Penrose. A cost effective cryopreservation technique. \$18,000.

2014- J. Huang and S.D. Prien. Enhancing the Quality of Cultured Mouse Embryos. Laura Bush Women Health Institute. \$10,000.

2015-J. Phy, J. Huang, S.D. Prien, Yan Zhang. Effect of acupuncture on vascular biomarkers and psychological well-being of women undergoing in vitro fertilization. Women's Health LWBIWH/UMC Women's Health Research Scholars Program. \$20,000

2015- S.D. Prien, L. Penrose. South Plains Foundation, Use of a Modified Specific Gravity Chamber to Assess Blastocyst Quality Before and After Cryopreservation: Implications for Pregnancy Development, \$9,944

2016 – S.D. Prien and L. Penrose. Laura W. Bush Institute for Women's Health. Use of a Modified Technique for the Detection of Chromosomal Abnormalities in Embryos Created using Assisted Reproductive Technologies \$19,328.

GRANTS (cont.)

Regional

1999 - Houston Livestock Show and Rodeo. S.D. Prien and A. Herring. Use of cloned cattle embryos to determine the effect of gossypol on implantation. \$8,742.

2004 - Texas Higher Education Coordinating Board Minority Health Research and Education Grant Program - 2004-05 Program K. Flood-Shaffer and S.D. Prien. Expanding the West Texas early pregnancy and STD study. \$222,377.

2004 - Texas Higher Education Coordinating Board Advanced Technology Program. A. Halldorsson and S.D. Prien. Extending organ viability ex-vivo using a unique oxygen delivering mobile perfusion. \$145,000.

2005 - Mathews and Mathews. S.D. Prien. The X/Y Project. \$250,000.

National

1996 - Cotton Incorporated. S.D. Prien and J. Simoni. Biochemical responses of cultured cells to gossypol. \$5000.

2000 - Cotton Incorporated. S.D. Prien and A. Herring. Use of cloned cattle embryos to determine the effect of gossypol on implantation—graduate student support. \$8,000.

2002 - March of Dimes. S.D. Prien, K. Flood-Shaffer and K.B. Porter. West Texas early pregnancy and chlamydia study. \$300,000.

2007 - US Jersey Association S.D. Prien. Preliminary studies designed to improve the cryopreservation of jersey cattle embryos. \$5,000.

2010 - US Jersey Association S.D. Prien. Use of a mouse model to demonstrate improved embryo survival rates following cryopreservation: A potential means of improving Jersey embryo survival. \$6,000.

Industrial

1990 - Tap Pharmaceutical, Inc. Grant. S.D. Prien. The use of Lupron (leuprolide acetate) to increase spermatozoa production. \$1,500.

1992 - Serono Laboratories Grant. S.D. Prien. In vivo and in vitro progesterone production from IVF patients stimulated with menopausal gonadotropins. \$2100.

1999 - Serono Laboratories. S.D. Prien, M.S. Canez, and S. Khan. Early progesterone levels and cycle outcomes following in vitro fertilization. \$50,000.

1999 - Suprachill industrial gift. S.D. Prien and D. Johnson. Use of a new technology for the cryopreservation of spermatozoa and embryos. \$25,000.

GRANTS (cont.)

Industrial

2001 - SupaChill USA, S.D. Prien. Evaluation of a unique freezing technology. \$32,000.

2001 - Organ Transport Systems. A. Halldorsson and S.D. Prien. Evaluation of the life preserver. \$95,000.

2002 - Organ Transport Systems. S.D. Prien. Directed physiology studies. \$75,000.

2004 - Organ Transport Systems. A. Halldorsson and S.D. Prien. Matching funds to ATP grant. \$125,000.

2007 – Organon Pharmaceutical, Inc. S.D. Prien. Evaluation of breed differences in bovine embryo cryopreservation: A model for biochemical and physiological differences in freezing. \$30,175.

Commercialization

2017-- Texas Tech University Accelerator Program, Reproductive Solutions Inc (S.D. Prien, Inventor and Chairman of Board) \$25,000.

2017 – NSF—Icorps discover grant. A non-invasive technique for embryo assessment (S.D. Prien, K. Gramm and C.E. Wessels) \$50,000.

2017 -- Texas Tech University Health Sciences Center President's Innovation Award. (S.D. Prien, Inventor and Chairman of Board) \$15,000

PEER REVIEWED PUBLICATIONS

S.D. Prien, M.E.T. Scioli, J.R. Goodin, and J.D. Berlin. Reproductive control of leaf expansion in cotton. Proc. 1980 Beltwide Cotton Production Research Conf. 41-43, 1980.

J.B. Lombardini and S.D. Prien. Taurine binding by rat retina membranes. Exp Eye Res. 37: 239-250, 1983.

R. Vijayakumar, B. Ndubisi, S.D. Prien, F. DeLeon and W. Heine. Quantitative ultramorphological evaluation of swim-up spermatozoa utilized in human in vitro fertilization and transcervical intra-uterine insemination. Arch Androl 17:223-230, 1986.

R. Vijayakumar, B. Ndubisi, S.D. Prien, F.D. DeLeon and M.W. Heine. Scanning electron microscopic evaluation of swim-up human spermatozoa utilized during gamete intra-fallopian tube transfer, in vitro fertilization, intrauterine and intra-tubal inseminations. Andrologia 19: 551-554, 1987.

PEER REVIEWED PUBLICATIONS (cont.)

S.D. Prien, C.D. Lox, R.H. Messer, and F.D. DeLeon. Seminal concentrations of total and ionized calcium from men with normal and decreased motility. *Fertil Steril* 54:171-172, 1990.

K.J. Earley, J.D. Blanco, S.D. Prien and D. Willis. Patient attitudes toward maternal serum alpha-fetoprotein testing (MSAFP) when results are false positive and true positive. *Southern Med J* 84:439-42, 1991.

J. Blanco, M. Collins, D. Willis, and S.D. Prien. Outcome in patients with a prior low transverse caesarean section induced by prostaglandin E2 gel. *Am J Perinatol* 9:80-83, 1992.

C.D. Lox, M.W. Heine, F. DeLeon and S.D. Prien. Effects of danazol on coagulant activity in the rat. *Int J Fertil* 37:48-54, 1992.

J.P. Magee, J.D. Blanco, J.M. Graham, C. Rayburn and S.D. Prien. Endometritis after cesarean: The effect of age. *Am J Perinatol* 11:24-26, 1994.

S.D. Prien, M.S. Canez and R.H. Messer. Increases in progesterone following hCG administration may predict cycle outcome in patients undergoing IVF. *Fertil Steril* 62:1066-1068, 1994.

C. Lox, M. Canez, F. DeLeon, J. Dorsett and S.D. Prien. Hyperestrogenism induced by menotropins alone or in conjunction with luprolide in IVF cycles: The impact on hemostasis. *Fertil Steril* 63:566-570, 1995.

J. Simoni, G. Simoni, C.D. Lox, S.D. Prien and G.T. Shires. Mechanisms of hemoglobin interference with an enzyme-linked immunosorbent assay (ELISA) for the detection of tumor necrosis factor-alpha. *Anal Chim Acta* 313:1-14, 1995.

S.D. Prien, M.S. Canez and R.H. Messer. Hormone release from cultured luteinized-granulosa mimics differences seen in vivo in patients undergoing IVF-ET. *J Assist Reprod Genet* 12:180-186, 1995.

S.D. Prien, C. Dunn and R.H. Messer. Adhesion promoting properties of dyes routinely used during fertility surgeries. *J Assist Reprod Genet* 12: 136-140, 1995.

J. Simoni, G. Simoni, C.D. Lox, S.D. Prien and G.T. Shires. Evidence for the direct inhibition of endothelin-1 secretion by hemoglobin in human endothelial cells. *ASAIO Journal* 41:M641-M651, 1995.

J. Simoni, G. Simoni, E.L. Garcia, S.D. Prien, R.M. Tran, and G.T. Shires. Protective effect of selenium on hemoglobin mediated lipid peroxidation in vivo. *Artif Cells Blood Substit Immobil Biotechnol* 23:469-485, 1996.

PEER REVIEWED PUBLICATIONS (cont.)

J. Simoni, G. Simoni, C.D. Lox, S.D. Prien, Ruc Tran and G.T. Shires. Expression of adhesion molecules and von willebrand factor in human coronary artery endothelial cells incubated with differently modified hemoglobin solutions. *Artif Cells Blood Substit Immobil Biotechnol* 25:211-225, 1997.

J. Simoni, G. Simoni, C.D. Lox, S.D. Prien, and G.T. Shires. Modified hemoglobin solution, with desired pharmacological properties, does not activate nuclear transcription factor NF-kappa B in human vascular endothelial cells. *Artif Cells Blood Substit Immobil Biotechnol* 25:193-210, 1997.

H.A. Brady, N.N. Johnson, C.S. Whisnant and S.D. Prien. Effects of oral altrenogest on testicular parameters, steroid profiles and seminal characteristics in young stallions. *Proc Am Assoc Equine Prac.* 195-196, 1997.

D. Badueax, C.D. Lox, J.W. San Diego, R.H. Messer and S.D. Prien. Detection of toxins to human female reproduction using human luteinized-granulosa cells in culture. *Prim Care Update*

C.D. Lox, M.S. Canez, and S.D. Prien. The influence of hyperestrogenism during in vitro fertilization on the fibrinolytic mechanism. *Inter J Fertil* 43:34-39, 1998.

J. Simoni, G. Simoni, R. Martinez-Zaguilan, D. Wesson, C.D. Lox, S.D. Prien and R. Kumar. Improved Blood Substitute. Evaluation of its effect on human endothelial cells. *ASAIO Journal*, 44: M356-M367, 1998.

T. Geiger, M. Khan, S.C. Whisnant, S.D. Prien, and S.A. Khan. Regulation of DNA synthesis in leydig cells obtained from neo-natal pig testes. *Domest Anim Endocrinol* 17:65-75, 1999.

S.D. Prien, D. Johnson, D. Doan. Comparison of commercially available first-, second-, and third-generation gonadotropins: from crude urinary proteins to biotechnology. *Assist Reprod* 9:185-191, 1999.

D.W. Blann and S.D. Prien. Estimation of fetal weight before and after amniotomy in the laboring gravida. *Am J Obstet Gynecol* 182:1117-20, 2000.

S.D. Prien, M.S. Canez, and R.H. Messer. The dosage of human chorionic gonadotropins influences the relationship between progesterone and cycle outcome during in vitro fertilization-embryo transfer. *Inter J Fertil* 45: 258-263, 2000.

N.L. Heninger, H.A. Brady, S.D. Prien, A.D. Herring, K.A. Ball and L.D. Janecka. Effects of altrenogest on hormonal, seminal, and behavioral parameters of two-year-old stallions in training. *Professional Animal Scientist* 17:75-80, 2001.

PEER REVIEWED PUBLICATIONS (cont.)

M.H. Miskell, K.B. Porter, S.D. Prien. The combination of smoking and oral contraceptives in women's health. *J Clin Pract Sexual* (in press).

H.A. Vartorella, H.A. Brady, A.D. Herring and S.D. Prien. Case Study: The effects of an intermittent regimen of altrenogest on behavioral, hormonal and testicular parameters of three –year-old stallions. *Professional Animal Scientist* 17:317-321, 2001.

J. Phy and S.D. Prien. Differences in StAR protein expression for the luteinizing-granulosa cells of IVF-ET patients: Implications for cycle outcomes. *Am J Ob Gyn* 2002; 186: 872-875.

S.D. Prien, J. Simoni, and J. San Diego. The effects of cell-free hemoglobins on embryo development in vitro. *J Anim Vet Adv* 2002; 1:76-78.

S.D. Prien, J.L. Pipkin, J. San Diego, and M.A. Papay-Harris. The effect of conditioned medium recovered from human luteinized-granulosa cells on the development of mouse embryos in vitro. *J Anim Vet Adv* 2002; 1:189-192.

M.A. Guzman, S.D. Prien and D.W. Blann. Post-cesarean related infection and vaginal preparation with povidone-iodine revisited. *Prim Care Update Ob/Gyn* 2002; 9:206-209.

V.A. Minassian, S.D. Prien, A. Jazayeri, K.B. Porter, and R.L. Timmons. Prospective, double-blinded, randomized trial of lidocaine ointment vs placebo for the treatment of post-episiotomy or postpartum perineal laceration pain. *Obstet Gynecol* 2002; 100:1239-1244.

H.A. Goolsby, H.A. Brady, and S.D. Prien. The off-label use of altrenogest in stallions: A survey. *J Equine Vet Sci* 2004; 24:72-75.

H.A. Goolsby, J.R. Blanton, P. Cotter, and S.D. Prien. Comparisons of a unique freezing technology (UFT) to traditional liquid nitrogen methodology for cryopreservation of porcine spermatozoa. *Reprod Domest Anim* 2004; 39:328-332.

H.A. Goolsby, J.R. Blanton, and S.D. Prien. Preliminary comparisons of a unique freezing technology to traditional cryopreservation methodology of equine spermatozoa. *J Equine Vet Sci* 2004; 24:314-318.

P. Z. Cotter, H.A. Goolsby, S.D. Prien. Preliminary evaluation of a unique freezing technology for bovine spermatozoa cryopreservation. *Reprod Domest Anim* 2005; 40:98-99.

L. Penrose, E. Yeomans, C. Praderio and S.D. Prien. Improving the Resident Research Experience: An incremental approach to improving scholarly activity. *J Grad Med Ed*. 2012, 4; 496-499.

PEER REVIEWED PUBLICATIONS (cont.)

A. Garcia, H. Brady, W. Nichols, S.D. Prien. A Survey of Equine Cyathostome Resistance to Fenbendazole in Texas Horse Facilities Journal Equine Veterinary Science J Equine Vet Sci, 2013, 33; 223-228.

J. Weathers, N. Zimmerer, L. Penrose, K. Graves-Evenson, and S.D. Prien. The relationship between maternal body fat and pre-implantation embryonic weight: Implications for survival and long-term development in an assisted reproductive environment. Open J Ob Gyn, 2013, 3; 1-5. doi:10.4236/ojog.2013.35A2001

J. Hice, L. Penrose R.B. Yandell and S.D. Prien. Mice Peritoneal Macrophage Activation to Surgical Suture Material. Austin J Obstet Gynecol. 2014; 1: 1-4.

B. Zanolini A.M. Oberbauer, S.D. Prien, M.L. Galyean and S.P.Jackson. Effects of Sex, Breed, Callipyge Phenotype, and Docked Tail Length on Rectal Prolapse in Lambs. Sheep & Goat Research Journal, 2014; 29: 5-10.

D.L. Johnson and S.D. Prien. A Novel Collection Technique for the Improvement of Semen Quality. J Dairy Vet Anim Res 2014; 1: 00002.
<http://dx.doi.org/10.15406/jdvar.2014.01.00002>

H.A. Goolsby, G. Simoni, J. Simoni and S.D. Prien. Lipid Peroxidation during the Cryopreservation Process of Porcine Spermatozoa. GJMR 2014; 4: 29-34.

J. Petty S, Jabara, S.D. Prien and L. Penrose. Obesity Appears to Impact Male Fertility by Degrading Overall Semen Quality Rather Than Individual Semen Parameters. Open J Ob Gyn 2014; 4: 917-923. doi: 10.4236/ojog.2014.415129.

J.D. Weathers and S.D. Prien. Estimation of Weight and Lipid Composition in Preimplantation Embryos from Jersey and Beef Cattle. Open J Vet Med 2014; 4, 261-266. <http://dx.doi.org/10.4236/ojvm.2014.411031>

E. Henslee, A. Hatton, S. Welt, J. Holmes, L. Penrose, S.D. Prien, and N. Farooqi. Use of Oral Agents and/or Insulin in the Treatment of Diabetes during Pregnancy: An Examination of Outcomes in Pregestational versus Gestational Diabetics. Open J Ob Gyn 2014; 4, 1052-1057.

S.D. Prien, Making Assisted Reproductive Techniques a Disruptive Innovation in Production Agriculture. J Dairy Vet Anim Res, 2015; 2: 1.

S.D. Prien, C.E. Wessels, and L. Penrose, Preliminary trials of a specific gravity technique in the determination of early embryo growth potential. Human Reproduction, 2015; 30: 2076-83.

PEER REVIEWED PUBLICATIONS (cont.)

S.D. Prien, J. Smith, C. Barron, J. Martin, N.A. Farooqi, A.K. Loveless, A. VanGheem, and L. Penrose. Assessment of Risk of Carrier Waves in the Assisted Reproductive Laboratory. Open Journal of Obstetrics and Gynecology, 2015; 5: 535-541.

J. Clifton, L. Penrose, S.D. Prien, and N.A. Farooqi. Influence of sex education on condom knowledge and condom use skills among Texas college students. Texas Medicine, 2015; 111(2011): 4.

W. Langdon, C. Love, S. Teague, H. Brady, and S.D. Prien. An Evaluation of Equine Sperm Chromatin After Exposure to Ambient Heat Stress. Equine Vet Sci, 2015; 35: 960-965.

S. Iacovides, and S.D. Prien. Cryoprotectants & Cryopreservation of Equine Semen: A Review of Industry Cryoprotectants and the Effects of Cryopreservation on Equine Semen Membranes. J Dairy Vet Anim Res, 2016; 3:63.

Y. Zhang, J. Phy, C. Scott-Johnson, S. Garos, J. Orlando, S.D. Prien and J.C. Huang. Effects of a Delphi consensus acupuncture treatment protocol on the levels of stress and vascular tone in women undergoing in-vitro fertilization: a randomized clinical trial protocol. BMC Complement Altern Med. 2017 Apr 4; 17(1):197.

C.E. Wessels, L.L. Penrose and S.D. Prien. Noninvasive embryo assessment technique based on buoyancy and its association with embryo survival after cryopreservation. Theriogenology. 2017:103; 169-172.

C.E. Wessels, L.L. Penrose and S.D. Prien. Current State of Art Embryo Selection Techniques. Invest Obstet Gynecol Res. 1(1). IOGR.000502. 2017

TECHNICAL BULLETINS

J.L. Pipkin, S.D. Prien, K.E. Pipkin and J.R. Clark. Culture of porcine oviductal cells. Texas Tech Univ. Agric. Scie. Tech. Rep. T5-283:87-89, 1990.

S.D. Prien, J.L. Pipkin, J.R. Clark and F.D. Deleon. Does endothelial cell growth factor affect early embryo growth and development in vitro? Texas Tech Univ. Agric. Scie. Tech. Rep. T5-283:90-92, 1990.

J.L. Pipkin, S.D. Prien, K.E. Pipkin and J.R. Clark. Culture and co-culture of porcine embryos. Texas Tech Univ. Agric. Scie. Tech. Rep. T5-283:93-94, 1990.

S.D. Prien and J.R. Clark. Use of Ham's F-10 media as an extender for porcine semen. Texas Tech Univ. Agric. Scie. Tech. Rep. T5-283:95-97, 1990.

TECHNICAL BULLETINS (cont.)

S.D. Prien, J.R. Clark and J.L. Pipkin. Use of specific ion electrodes for calcium determination in seminal fluid. Texas Tech Univ. Agric. Scie. Tech. Rep. T5-283:98-99, 1990.

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S.D. Prien, J.L. Pipkin and J.R. Clark. Effects of various calcium sources on porcine spermatozoa activity in vitro. Society for the Study of Reproduction Annual Meetings, Raleigh, NC, July, 1992.

S.D. Prien, M.J. Dorsett, R. Pirtle and R.H. Messer. Usefulness of various hormone concentrations on the day of, and the day after hCG administration in predicting in vitro fertilization outcome. The American Fertility Society 48th Annual Meeting, New Orleans, LA, October, 1992.

C. Lox, M. Canez, J. Dorsett, and S.D. Prien. Does GnRH agonist plus Pergonal stimulated hyperestrogenism lead to an increased thrombotic potential? The Endocrine Society 75th Annual Meeting, Las Vegas, NV, June, 1993.

S.D. Prien, C. Lox, D. McGunegle, and J. Simoni. Effects of acetylsalicylic or eicosapentanoic acid on prostacyclin and thromboxane secretion in cultured endothelial cells. The Endocrine Society 75th Annual Meeting, Las Vegas, NV, June, 1993.

C.F. Berry, J.L. Pipkin, P.T. Modesitt, S.D. Prien, and J.R. Clark. Comparison of various media for in vitro culture of porcine embryos. American Society of Animal Science Annual Meeting, Spokane, WA, July, 1993.

C.D. Lox and S.D. Prien. Effects of acetylsalicylic or eicosapentanoic acid on prostanoid secretion in cultured endothelial cells. UCLA Symposia on Molecular Mechanisms in Vascular Disease, Keystone, CO, January, 1994.

P.T. Modesitt, S.D. Prien, K.L. Nordeen-Tadlock, D.B. Wester, and J.R. Clark. Effects of follicle size, growth factor, and sperm concentration on in vitro maturation and fertilization of porcine oocytes. American Society of Animal Science Annual Meeting, Minneapolis, MN, July, 1994.

S.D. Prien, M.S. Canez, P.T. Modesitt, J. San Diego and R.H. Messer. Can cultured human luteinized-granulosa be used to detect toxins to human reproduction? Society for the Study of reproduction Annual Meetings, Ann Arbor, MI, July, 1994.

S.D. Prien, M.S. Canez and R.H. Messer. Hormone release from cultured luteinized-granulosa cells mimics differences seen in vivo in patients undergoing IVF. The American Fertility Society 50th Annual Meeting, San Antonio, TX, November, 1994.

ABSTRACTS (cont.)

National

C. Dunn, R.H. Messer, and S.D. Prien. Effects of methylene blue and indigo carmine exposure concentration on peritoneal macrophage stimulation. The American Fertility Society 50th Annual Meeting, San Antonio, TX, November, 1994.

S.C. Boyd, S.D. Prien and M.S. Canez. Timing of human chorionic gonadotropin in clomiphene citrate-stimulated cycles. The American Fertility Society 50th Annual Meeting, San Antonio, TX, November, 1994.

J. Simoni, G. Simoni, S.D. Prien, R.M. Tran and G.T. Shires. The intracellular antioxidant defense system status after massive transfusion of free Hb-based blood substitutes. American Society for Artificial Internal Organs Annual Meeting, Chicago, IL, May, 1995.

J. Simoni, G. Simoni, C.D. Lox, S.D. Prien and G.T. Shires. Evidence for the direct inhibition of endothelin-1 secretion by hemoglobin in human endothelial cells. American Society for Artificial Internal Organs Annual Meeting, Chicago, IL, May, 1995.

S.D. Prien, J. San Diego, R Pirtle, V. Scott and R.H. Messer. Use of human luteinized-granulosa cells in culture to detect toxins to human reproduction. Society for the Study of Reproduction Annual Meetings, Davis, CA, July 1995.

V.D. Castracane, T. Gimpel, S.D. Prien, C. Doering, and G.M. Butterstein. Peri-implantation changes in plasma fibrinogen in women and rats. Society for the Study of Reproduction Annual Meetings, Davis, CA, July 1995.

C. Lox, C. Ronaghan, S.D. Prien and R. Messer. The impact of tamoxifen on the fibrinolytic mechanism in menopausal women. North American Menopause Society Annual Meeting, San Francisco, CA, September 1995.

S.D. Prien, M.S. Canez, M.K. Brewster, and R.H. Messer. Factors effecting the use of progesterone as a predictor of IVF cycle outcome: Influence of varying doses of hCG. 51st Annual Meeting of the American Society for Reproductive Medicine, Seattle, WA, October.

J.W. San Diego, M.A. Papay-Harris, S. Castillo, and S.D. Prien. Factors potentially effecting embryo development during co-culture with human luteinized-granulosa cells. American Medical Student Association Annual Meetings, Washington, D.C., March 1996.

D. Badeaux, C.D. Lox, J.W. San Diego, R.H. Messer and S.D. Prien. Evaluation of toxins to human female reproduction using human luteinized-granulosa cells in culture. Endocrine Society 78th Annual Meeting. San Francisco, CA, June 1996.

ABSTRACTS (cont.)

National

S.D. Prien, J.W. San Diego, S. Castillo, J. Simoni, M.A. Papay-Harris and R.H. Messer. Is cell-free hemoglobin detrimental to embryo development in vitro? 52nd Annual Meeting of the American Society for Reproductive Medicine, Boston, MA, November 1996.

C. Lox, M. Canez and S.D. Prien. The influence of hyperestrogenism during in vitro fertilization on the fibrinolytic mechanism. Annual Meeting of the American College of Obstetricians and Gynecologists, Las Vegas, NV, April, 1997.

J. Simoni, G. Simoni, C.D. Lox, S.D. Prien, G.T. Shires and M. Feola. Investigation into the Hb-mediated inflammatory reactions, and the attenuation of such effects. Shock Society Annual Meeting, Indian Wells, CA, June, 1997.

D. Badueax, R.H. Messer and S.D. Prien. Can cultured luteinized-granulosa cells be used to detect contaminated serum in an in vitro fertilization program? Society for the Study of Reproduction Annual Meetings, Portland, OR, August, 1997.

D. Doan, M.S. Canez, R.H. Messer and S.D. Prien. Is the relationship between serum progesterone and IVF outcome different between Humegon and Pergonal stimulated cycles? 53rd Annual Meeting of the American Society for Reproductive Medicine, Cincinnati, OH, October 1997.

S.D. Prien, A. Cardenas and R.H. Messer. Can the glucose concentrations of serum used during in vitro fertilization culture influence early embryo development? 53rd Annual Meeting of the American Society for Reproductive Medicine, Cincinnati, OH, October 1997.

H.A. Brady, N.N. Johnson, C.S. Whisnant, S.D. Prien, and M. Hellman. Effects of oral altrenogest on testicular parameters, steroid profiles and seminal characteristics in young stallions. Annual Meeting of the American Society of Equine Producers, Phoenix, AZ, October, 1997.

D. Timm, C.D. Lox, and S.D. Prien. Prostanoid production by cultured umbilical endothelial cells from the second and third trimester in normal women and women with severe gestational hypertension. 1998 Congress on In Vitro Biology, Las Vegas, NV, May, 1998.

S.D. Prien and V.D. Castracane, Leptin and the ovarian follicle. The Endocrine Society 80th Annual Meeting, New Orleans, LA, June, 1998.

N.L. Heninger, H.A. Brady, S.D. Prien, A.D. Herring, K.A. Ball and L.D. Janecka. Effects of altrenogest on hormonal, seminal, and behavioral parameters of two-year-old stallions in training. Proc 16th Equine Nutrition and Physiology Symposium, June 1999.

ABSTRACTS (cont.)

National

C.D. Lox and S.D. Prien. The homocysteine pathway during the first two weeks of pregnancy following in vitro fertilization-embryo transfer (IVF-ET). 56th Annual Meeting of the American Society for Reproductive Medicine, San Diego, CA, October 2000.

S.D. Prien and J. Phy. Differences in StAR protein expression from the luteinizing-granulosa cells of IVF-ET patients: Implications for cycle outcomes. 56th Annual Meeting of the American Society for Reproductive Medicine, San Diego, CA, October 2000.

K.B. Porter, D. Rambo, A. Jazayeri, M. Jazayeri and S.D. Prien. Prospective randomized trial of once versus twice a day metronidazole-vaginal in obstetrical population identified with bacterial vaginosis. 21st Annual Meeting Society for Maternal-Fetal Medicine, Reno Hilton, Reno, NV, February, 2001.

S.D. Prien, B. Locke and K.B. Porter. The necessity of teaching basic computer skills to Ob-Gyn residents. CREOG and APGO Annual Meeting, Lake Buena Vista, FL, March 2001.

S.D. Prien, J. Blanton, D. Johnson, N. Henniger, and A. Jones. Evaluation of a new technology to cryopreserve semen, embryos and cell lines: Survival studies. Society for Gynecologic Investigation Annual Meetings, Toronto, Canada, March, 2001.

D. Johnson and S.D. Prien: A novel collection technique for improvement of semen quality. Society for Gynecologic Investigation Annual Meetings, Toronto, Canada, March, 2001.

S.D. Prien, H. Varterella, B. Wehner, and J. Blanton. Cryopreservation of blastocysts using a unique freezing technology. 57th Annual Meeting of the American Society for Reproductive Medicine, Orlando, FL, October 2001.

S.D. Prien, C. Aronoff, and K.B. Porter. Development of a core competency program in research. CREOG and APGO Annual Meeting, Dallas, TX, March, 2002.

V. Minassian and S.D. Prien. Development of a structured curriculum in laparoscopy training for Ob/Gyn residents. Annual Meeting of the American College of Obstetricians and Gynecologists San Diego, CA, May 2002.

V.A. Minassian, S.D. Prien, A. Jazayeri, K.B. Porter, and R.L. Timmons. Prospective, double-blinded, randomized trial of lidocaine ointment vs placebo for the treatment of post-episiotomy or postpartum perineal laceration pain. Annual Meeting of the American College of Obstetricians and Gynecologists San Diego, CA, May 2002.

ABSTRACTS (cont.)

National

D.L. Johnson and S.D. Prien. Improving semen quality through collection modification. 58th Annual Meeting of the American Society for Reproductive Medicine, Seattle, WA, October, 2002.

S.D. Prien. An improved quality control protocol for ART. 59th Annual Meeting of the American Society for Reproductive Medicine, San Antonio, TX, October, 2003.

H.A. Vartorella and S.D. Prien. Cryoprotectant induced lipid peroxidation in spermatozoa being processed for freezing. 59th Annual Meeting of the American Society for Reproductive Medicine, San Antonio, TX, October, 2003.

S.D. Prien, C. Bramwell, L. Andrews, J. Oliver and L. Penrose. Use of a unique freezing technology to cryopreserve ovarian tissue. 59th Annual Meeting of the American Society for Reproductive Medicine, San Antonio, TX, October, 2003.

D.L. Johnson and S.D. Prien. New semen collection technique/container improves semen quality. 59th Annual Meeting of the American Society for Reproductive Medicine, San Antonio, TX, October, 2003.

N. Bradshaw, K. Flood-Shaffer, E. Rodriguez, A. Johnson-Rubio, K. Porter and S.D. Prien. Early outcomes from the West Texas early pregnancy and chlamydia project: Potential impact on future fertility. 60th Annual Meeting of the American Society for Reproductive Medicine, Philadelphia, PA, October, 2004.

D. Johnson, C. Dehn and S.D. Prien. Continued evaluation of a new semen collection technique/container in subfertile and infertile individuals using a cross-species model. 60th Annual Meeting of the American Society for Reproductive Medicine, Philadelphia, PA, October, 2004.

A. Skillern, M. Cole, S.D. Prien and S. Bello. Effective downregulation for in vitro fertilization with a one-time, one-third dose of depot formulation of leuprolide acetate intramuscularly in the luteal phase. Annual Meeting of the American Society for Reproductive Medicine, Philadelphia, PA, October, 2004.

K. Flood-Shaffer, A. Johnson-Rubio, E. Benson, E. Rodriguez, K. Porter, N. Bradshaw, and S.D. Prien. Early outcomes from the West Texas early pregnancy and chlamydia project. 132nd Annual Meeting of the American Public Health Association, Washington, DC, November, 2004.

A. Gupta, K. Flood-Shaffer and S.D. Prien. Seasonal variations in weather patterns appear to effect conception rates at a Southwestern United States teaching hospital. 33rd Annual Meeting of the North American Society for Psychosocial Obstetrics and Gynecology, February, 2006. (Abstract only)

ABSTRACTS (cont.)

National

V. Vujjani, G. Sutkin and S.D. Prien. 80-Hours Per Week: Are Ob/Gyn Residents Happy? CREOG and APGO Annual Meeting, Lake Buena Vista, FL, March 2006.

S.D. Prien, K Flood-Shaffer, A Johnson-Rubio, E Rodriguez, K Porter and L Brice. Early testing and treatment of chlamydia during pregnancy appears to have little effect on pre-term delivery rates. Society for Gynecologic Investigation Annual Meetings, Toronto, Canada, March, 2006. (*Abstract only unable to attend meeting due to emergency*)

C. Dehn, D. Johnson and S.D. Prien. A new device for the collection of bovine semen. 39th Annual Convention of American Association of Bovine Practitioners, Saint Paul, MI, September, 2006.

L. Brice, K. Flood-Shaffer, A. Johnson-Rubio, K. Porter, and S.D. Prien. Early testing and treatment of chlamydia during pregnancy appears to have little effect on pre-term delivery rates. National Perinatal Association Annual Conference, Washington, D.C. September, 2006.

M. Jones, S. Chavez, S.D. Prien, and A. Evans. Amniotic fluid assessment to predict neonatal pulmonary maturity: A comparison of FLM II, L/S ratios and lamellar body counts. Central Association of Obstetrics and Gynecology, Las Vegas, NV. October, 2006.

S.D. Prien and D. Johnson. Improvement of the semen collection environment using a new semen collection device. Annual Meeting of the American Society for Reproductive Medicine. New Orleans, LA, October, 2006.

N. Farooqi, J. Smith, L. Penrose and S.D. Prien. Effects of high frequency electromagnetic fields on sperm cellular function. Annual Meeting of the American Society for Reproductive Medicine, New Orleans, LA, October, 2006.

A. Skillern, D. Tomison, L. Penrose and S.D. Prien. Effects of extender media additives containing a novel protein source with antioxidant properties on motility, reactive oxygen species production, and lipid peroxidation in boar spermatozoa. Annual Meeting of the American Society for Reproductive Medicine, New Orleans, LA, October, 2006.

S.D. Prien, L. Penrose, N. Farooqi, C. Barron, A. Loveless and S. Jabara. Effects of high frequency electromagnetic fields on human sperm cellular function. Annual Meeting of the American Society for Reproductive Medicine, Washington D.C., October, 2007.

L. Penrose, M. Seller, S. Jabara, S. Overley, J. Copeland and S.D. Prien. Subtle changes in culture environmental temperature appear to effect spermatozoan physiology. Annual Meeting of the American Society for Reproductive Medicine, Washington D.C., October, 2007

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National

L.L. Penrose, S. Jabara, and S.D. Prien. A preparatory technique for semen selection. 64th Annual Meeting of the American Society for Reproductive Medicine, San Francisco, CA, and November, 2008 (printed only).

J.L. Petty, S.D. Prien, and S. Jabara. Effect of obesity on semen analysis parameters. 64th Annual Meeting of the American Society for Reproductive Medicine, San Francisco, CA, November, 2008.

T. Diaz, S.D. Prien, M. Sellers, A. Schutt and S. Jabara. Assisted reproductive technologies available to individuals with human immunodeficiency virus and other communicable diseases. 64th Annual Meeting of the American Society for Reproductive Medicine, San Francisco, CA, November, 2008.

J. Weathers, S. Jabara and S.D. Prien. Differences in embryo weight and chemical composition, and their implications for cryopreservation survival. 64th Annual Meeting of the American Society for Reproductive Medicine, San Francisco, CA, November, 2008.

A. Loveless, L. Welch, M. Sellers, N. Farooqi, and S.D. Prien. Effects of high frequency electromagnetic fields on sperm membrane permeability. 64th Annual Meeting of the American Society for Reproductive Medicine, San Francisco, CA, November, 2008.

A.R. Wolfe, J.D. Lewis, M.Z. Moghaddam, S. Niwayama, J.A. Byrne, S.D. Prien and R.K. Bright. A 2-dimensional proteomics-based approach to identify tumor associated antigens. American Association for Cancer Research Special Conference on Tumor Immunology Miami, FL, December 2008.

Lisa Welch and S.D. Prien. Death of human spermatozoa may be regulated separately by mitochondrial and cytosolic pathways. American Society of Andrology Annual Meeting, Philadelphia, PA, April, 2009.

S.D. Prien, James F. Hill, Lisa Welch, Dayden Shaffer, and Naghma Farooqi. Reproductive cells appear more sensitive to electromagnetic fields than other cell types. Annual Meeting American Society for Reproductive Medicine, Atlanta, GA, October, 2009.

Carolina Praderio, Joseph Martin, Naghma Farooqi and S.D. Prien. Influence of electromagnetic fields on embryo growth and development. Annual Meeting American Society for Reproductive Medicine, Atlanta, GA, October, 2009.

E. Henslee, A. Hatton, S. Welt, J. Holmes, L. Penrose, S.D. Prien and N. Farooqi. A review of diabetic treatment during pregnancy: Apples and oranges. Joint District VII, VIII, IX & XI Annual Meeting, Maui, HI, October, 2010.

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National

J. Weathers, N. Zimmerer, and S.D. Prien. Development of a murine model to study the influence of maternal body composition on embryo cytoplasmic composition. American Society of Reproductive Medicine Annual Meetings, Denver, CO, October, 2010.

L. Penrose, A. Van Gheem, L. Welch and S.D. Prien. Do cell phones truly impact cellular function? American Society of Reproductive Medicine Annual Meetings, Denver, CO, October, 2010.

S.D. Prien, L. Penrose and E. Yeomans. Improving the resident research experience: The baby-steps program. CREOG and APGO Annual Meeting, San Antonio, TX, March, 2011.

L. Welch and S.D. Prien. Physiological and biochemical assessment of a new semen collection device. American Society of Reproductive Medicine Annual Meetings, Orlando, FL, October, 2011.

N. Zimmerer, J. Weathers, and S.D. Prien. Refinement of a mouse model to study the influence of maternal body condition on embryo chemistry. American Society of Reproductive Medicine Annual Meetings, Orlando, FL, October, 2011.

A. Van-Gheem, J. Martin L Penrose, N. Farooqi, and S.D. Prien. Short-term exposure to cell phone levels of radio frequency radiation do not appear to influence semen parameters in vitro. American Society of Reproductive Medicine Annual Meetings, Orlando, FL, October, 2011.

K. Graves-Evenson, J. Weathers, L. Penrose, D. Johnson, R. Kauffman, and S.D. Prien. Use of unique semen collection device improves conception rates of bovine. Annual Meeting of the American Society of Animal Science – Southern Section, Birmingham, AL, February, 2012.

V.D. Castracane, L. Penrose, A. Carpenter, S.D. Prien, and R.L. Norman. The Effect of Fetal Number on Maternal Serum Leptin Levels in the Sheep. Society for Gynecologic Investigation Annual Meeting, San Diego, CA, March, 2012

Cody Sultenfuss, S.D. Prien, Lindsay Penrose. Preliminary results from a novel semen thawing device designed to provide stable thermal stability during the thawing procedure. National Association of Animal Breeders Meeting in Milwaukee, WI, September, 2012

C. Wessels, L. Penrose and S.D. Prien. A Potential Improved Technique for Selection of Embryos to be used for Cryopreservation and Genetic Storage. Society for the Advancement of Chicanos and Native Americans in Science, Seattle, WA, October 2012.

ABSTRACTS (cont.)

National

R.P. Kauffman, L. Welch, S.D. Prien, and J. Phy. Early Fertility Trials of a Semen Collection Device Previously demonstrated to Improve Semen Parameters and Pregnancy Rates in Animal Models. American Society of Reproductive Medicine Annual Meetings, San Diego, CA, October, 2012.

S.D. Prien, C. Wessels and L. Penrose, Can Estimations of Early Stage Embryo Weight Predict Later Embryo Development Rates? American Society of Reproductive Medicine Annual Meetings, San Diego, CA, October, 2012.

WC Langdon, CC Love, SR Teague, HA Brady, LL Penrose and S.D. Prien. Effects of ambient heat stress of equine sperm chromatin by evaluation of two differing techniques. Twenty-Third Equine Science Society Symposium, Ruidoso, NM, May 2013.

C.C. Sultenfuss, M. Mujahid, S.D. Prien and L.L. Penrose. A Novel and Inexpensive Semen Thawing Device Designed to Improve Efficiency in a Production Agriculture Environment, 25th Biennial National Association of Animal Breeders Technical Meeting, Green Bay, WI, September, 2014

C. Wessels, L. Penrose and S.D. Prien. A Preliminary Trial of Pregnancy Outcomes Following Embryo Selection by Specific Gravity. Annual meeting of the American Society for Reproductive Medicine, Baltimore, MD, October, 2015.

S.D. Prien, C. Shelinbarger, C. Wessels and L. Penrose. Early Limited Exposure to a Microfluidic Environment Appears to Enhance Embryo Development In Vitro. Annual meeting of the American Society for Reproductive Medicine, Baltimore, MD, October, 2015.

C. E. Wessels, L. Penrose and S.D. Prien. A preliminary trial of pregnancy outcomes and potential sex selection following embryo Selection by specific gravity. 2016 Aspen/Snowmass Perinatal Biology Symposium. Aspen, CO. August 2016.

C. E. Wessels, L. Penrose, and S.D. Prien. Embryo specific gravity can detect cryodamage, genetic information and establish pregnancy Annual Congress of the American Society for Reproductive Medicine, Salt Lake City, UT, October 2016.

S.D. Prien, C. Dehn, K. Evenson, and L. Penrose. Pregnancy trials using the device for improved semen improved semen collection. Annual Congress of the American Society for Reproductive Medicine, Salt Lake City, UT, October 2016.

B. Schniers, J. Huang and S.D. Prien. Preliminary evidence that iloprost prevents apoptosis in cultured embryos. Annual Congress of the American Society for Reproductive Medicine, Salt Lake City, UT, October 2016.

ABSTRACTS (cont.)

National

C. Wessels, L. Penrose and S.D. Prien. A Non-Invasive Embryo Assessment Technique Can Detect Cryodamage, Genetic information and Establish Pregnancy. Southern Section American Society of Animal Science Meeting, Franklin, TN, February 2017.

J. L. Phy, J. Orlando, Y. Zhang, S. Garos, L. Penrose, S.D. Prien, J. Huang. Effect of Acupuncture on Vascular Biomarkers and Psychological Well-Being of Women Undergoing IVF. American Society for Reproductive Medicine. San Antonio, Texas, October 2017.

C. Wessels, L. Penrose, S.D. Prien. A noninvasive method for assessing oocyte competency. American Society for Reproductive Medicine Annual Congress, San Antonio, TX October 2017.

Y. Zhang, J. Phy, S. Garos, J., Orlando, L. Prenrose, S.D. Prien and J. Huang. Effects of a delphi consensus acupuncture treatment protocol on the levels of stress and vascular tone in women undergoing in-vitro fertilization: a randomized clinical pilot study preliminary findings. 2018 International Congress on Integrative Medicine and Health, Baltimore, MD, May 8-11.

International

J.L. Pipkin, S.D. Prien and J.R. Clark. Effects of endothelial growth factor on cultured and co-cultured porcine embryos. International Embryo Transfer Society Annual Conference, Denver, CO, January, 1990.

J. Simoni, G. Simoni, E.L. Garcia, S.D. Prien, M. Feola and G.T. Shires. Protective effect of selenium on hemoglobin mediated lipid peroxidation in vivo. XI Congress of the International Society for Artificial Cells, Blood Substitutes, and Immobilization Biotechnology, Boston, MA, July 1994.

J. Simoni, G. Simoni, C.D. Lox, S.D. Prien and G.T. Shires. Mechanisms of hemoglobin interference with an enzyme-linked immunosorbent assay (elisa) for the detection of tumor necrosis factor-alpha. 5th International Symposium on Analytical Techniques, Systems & Strategies in Biotechnology, Minneapolis, MN, October, 1994.

J. Simoni, G. Simoni, C.D. Lox, S.D. Prien, Ruc Tran and G.T. Shires. Expression of adhesion molecules and von willebrand factor in human coronary artery endothelial cells incubated with differently modified hemoglobin solutions. VI International Symposia on Blood, Montreal, Canada, November, 1996.

ABSTRACTS (cont.)

International

J. Simoni, G. Simoni, C.D. Lox, S.D. Prien, and G.T. Shires. Modified hemoglobin solution, with desired pharmacological properties, does not activate nuclear transcription factor NF-kappa B in human vascular endothelial cells. VI International Symposia on Blood Substitutes, Montreal, Canada, November 1996.

S.D. Prien, A. Miller, L. Yancey, J. Simoni and M.S. Canez. Effects of short-term embryo exposure to hemoglobin and other components of ruptured erythrocytes. Joint meeting 16th World Congress on Fertility and Sterility and 54th Annual Meeting of the American Society for Reproductive Medicine, San Francisco, CA, October 1998.

S.D. Prien, A. Miller, B. Roark and C.D. Lox. Can cultured human luteinized-granulosa cells be used to screen media quality in an ART program? Joint meeting 16th World Congress on Fertility and Sterility and 54th Annual Meeting of the American Society for Reproductive Medicine, San Francisco, CA, October 1998.

S.D. Prien, D. Doan and M.S. Canez. Steroid hormone production from cultures of human luteinized-granulosa cells supplemented with first, second and third generation gonadotropin products. Joint meeting 16th World Congress on Fertility and Sterility and 54th Annual Meeting of the American Society for Reproductive Medicine, San Francisco, CA, October 1998.

H.A. Vartorella, H.A. Brady, A.D. Herring, S.D. Prien, N.L. Heninger and A.L. Neumann. Effects of an intermittent altrenogest regimen on behavioral, hormonal, and testicular parameters of three-year-old stallions. International Animal Agriculture and Food Science Conference, Indianapolis, IL, July, 2001.

K. Evenson, J. Johnson, S.D. Prien and J. Blanton. Efficacy and economic value of estrous synchronization. ADSA-ASAS-CSAS Joint Meeting, Cincinnati, OH, July, 2005.

A. Skillern, S.D. Prien and S. Bello. Methylenetetrahydrofolate reductase mutations and fasting plasma homocysteine levels in women with unexplained infertility and unexplained recurrent pregnancy loss and pregnancy outcome following folic acid supplementation. Conjoint Annual Meeting ASRM/CFAS Montreal, Canada, October, 2005.

A. Halldorsson, H.A. Goolsby, M.D. Tomison, and S.D. Prien. Oxygenated perfusion of donor hearts reduces ischemic damage during preservation. International Society for Heart and Lung Transplantation, San Francisco, CA, April, 2007.

A. Halldorsson, H.A. Goolsby and S.D. Prien. Importance of perfusion solution selection for continuous perfusion of donor hearts during preservation. XXXVI Biennial World Congress of the International College of Surgeons, Vienna, Austria, December, 2008.

ABSTRACTS (cont.)

International

A. Halldorsson, P. Cotter and S.D. Prien. Biochemical predictors of donor heart function after storage using continuous oxygenated perfusion. XXXVI Biennial World Congress of the International College of Surgeons, Vienna, Austria, December, 2008.

A. Halldorsson, H.A. Goolsby and S.D. Prien. Evaluation of an oxygen delivering mobile perfusion device for donor heart transport. XXXVI Biennial World Congress of the International College of Surgeons Vienna, Austria, December, 2008.

C. Wessels, L. Penrose and S.D. Prien. Use if embryo weights to predict embryo quality. Conjoint Meeting of the International Federation of Fertility Societies and the American Society for Reproductive Medicine, Boston, MA, October, 2013

L. Hubbard, L. Penrose, G. Yeomans and S.D. Prien. Development of an inexpensive controlled rate freezer for semen cryopreservation. Conjoint Meeting of the International Federation of Fertility Societies and the American Society for Reproductive Medicine, Boston, MA, October, 2013

G. Yeomans, L. Penrose, L. Hubbard and S.D. Prien. Influence of paternal body chemistry on semen chemistry and its potential impact on cryopreservation. Conjoint Meeting of the International Federation of Fertility Societies and the American Society for Reproductive Medicine, Boston, MA, October, 2013

S.D. Prien, R. Klukarni and L. Penrose. Low laboratory relative humidities appear to affect initial conception rates but not on-going pregnancies in an ART program. Conjoint Meeting of the International Federation of Fertility Societies and the American Society for Reproductive Medicine, Boston, MA, October, 2013

L.L. Penrose, C.C. Sultenfuss, and S.D. Prien. A Novel and Inexpensive Thawing Device for Use in General Clinical Settings. Conjoint Meeting of the International Federation of Fertility Societies and the American Society for Reproductive Medicine, Boston, MA, October, 2013

L.L. Penrose, B. Mosman and S.D. Prien. The Relationship between Sex Hormone Binding Globulin and Controlled Ovarian Hormonal Stimulation in Assisted Reproductive Technology Patients. Conjoint Meeting of the International Federation of Fertility Societies and the American Society for Reproductive Medicine, Boston, MA, October, 2013

J. Hice, L. Penrose, A. Loveless and S.D. Prien. Use of an in vitro mouse macrophage model to detect the adhesion forming potential of materials used in pelvic surgery. Conjoint Meeting of the International Federation of Fertility Societies and the American Society for Reproductive Medicine, Boston, MA, October, 2013

ABSTRACTS (cont.)

International

L.L. Penrose, C.L. Shelinbarger and S.D. Prien. Influence of Environmental Hydrocarbons on Semen Parameters in Males Seeking Fertility Treatment. Conjoint Meeting of the International Federation of Fertility Societies and the American Society for Reproductive Medicine, Boston, MA, October, 2013

PRESENTATIONS

Local

Semen analysis. Dept. Ob/Gyn Endocrine Conference Texas Tech University Health Sciences Center, May, 1988.

The andrology laboratory. Dept. Ob/Gyn Endocrine Conference Texas Tech University Health Sciences Center, September, 1988.

The laboratory in in vitro fertilization. Texas Nurse Association District 18, Lubbock, Texas January, 1990.

Semen analysis. Dept. of Animal Sciences Artificial Insemination in Swine Workshop, Texas Tech University, April, 1990.

The infertility laboratory. Dept Ob/Gyn Understanding Infertility Workshop, Texas Tech University Health Sciences Center, July, 1990.

Male infertility: What can be done? Twelfth Annual Seminar in Obstetrics and Gynecology, Texas Tech University Health Sciences Center, September, 1990.

Effect of various calcium sources on in vitro characteristics of porcine spermatozoa. Dept Animal Science Livestock Day, Texas Tech University, September, 1991.

The role of the reproductive laboratory in treating infertility. Thirteenth Annual Seminar in Obstetrics and Gynecology, Texas Tech University Health Sciences Center, September, 1991.

Office andrology. Grand Rounds Department of Ob/Gyn Texas Tech University Health Sciences Center, March, 1993.

Practical office andrology: Beyond sperm counting. The Fifth Texas Tech University Ob/Gyn Summer Symposium, August, 1993.

Life in the modern world: environmental influences on human fertility. Fifteenth Annual Seminar in Obstetrics and Gynecology, Texas Tech University Health Sciences Center, September, 1993.

PRESENTATIONS (cont.)

Local

Andrology. Grand Rounds Department of Ob/Gyn Texas Tech University Health Sciences Center, March, 1994.

Can serum progesterone levels be used to predict unsuccessful in vitro fertilization cycles? Dept. of Physiology Seminar Series, Texas Tech University Health Sciences Center, May, 1995.

The role of the lab in the basic infertility workup. Grand Rounds Department of Ob/Gyn Texas Tech University Health Sciences Center, March, 1995.

Statistics, the good, the bad, and the very ugly. Grand Rounds Department of Ob/Gyn Texas Tech University Health Sciences Center, November, 1996.

A comparison of commercially available first- second- and third-generation gonadotropins: From crude urinary proteins to biotechnology. Grand Rounds Department of Ob/Gyn Texas Tech University Health Sciences Center, June, 1999.

The ends and outs of grant submission at TTUHSC: Paperwork you may want to, but can't live without. Grand Rounds Department of Ob/Gyn Texas Tech University Health Sciences Center, June, 2000.

Evaluation of a new technology to cryopreserve semen, embryos and cell lines: Survival studies. Department of Animal Science and Food Technology Graduate Seminar, January, 2001.

Up-date of andrology for the Ob/Gyn. Grand Rounds Department of Ob/Gyn Texas Tech University Health Sciences Center, October, 2001.

Development of new medical technologies: Collaborations between the university and industry. Grand Rounds Department of Ob/Gyn Texas Tech University Health Sciences Center – Lubbock, November, 2002.

The West Texas early pregnancy and chlamydia study. Grand Rounds Department of Ob/Gyn Texas Tech University Health Sciences Center – Lubbock, February, 2003.

HRTs-Where did we go wrong; basic physiology. Dean's Grand Rounds, Texas Tech University Health Sciences Center – Lubbock, August, 2003.

Development of new medical technologies: Collaborations between the university and industry. Department of Physiology Seminar Series, Texas Tech University Health Science Center, Lubbock, May, 2004.

STEM CELLS: Where are we and where are we going? Osher Lifelong Learning Institute at Texas Tech University, Lubbock, TX September 2005.

PRESENTATIONS (cont.)

Local

Comedy Defensive Reproduction. Ob/Gyn Grand Rounds, Texas Tech University Health Sciences Center, Lubbock, TX, April 2006.

STEM CELLS: Where are we and where are we going? Texas Tech University Howard Hughes Medical Institute, Lubbock, TX, April 2006 and July 2009.

An update on STD rates, training and education. School of Nursing Perinatal Experts Forum Texas Tech University Health Sciences Center, Lubbock, TX October, 2006.

STEM CELLS: Where are we and where are we going? Lubbock Interfaith Dialogue, Lubbock, TX, March, 2007

Comedy Defensive Reproduction. School of Nursing Perinatal Conference, Texas Tech University Health Sciences Center, Lubbock, TX, October 2007.

In early-pregnancy crisis, teens need a vital tool: Knowledge. Lubbock Avalanche-Journal, April 2008.

Teen Straight Talk—Lubbock Statistics on STDs & Teen Pregnancy, Lubbock, TX, July/November 2008, March/June/November 2009, March/October 2010, March/October 2011, March/October 2012, October 2013, October 2014, October 2015, October 2016, March/October 2017.

Teen Straight Talk—Big Decisions: breakout group, Lubbock, TX, July/November 2008, March/June/November 2009, March/October 2010, March/October 2011, March/October 2012, October 2013, October 2014, October 2015, October 2016, March/October 2017.

Ethical issues in reproductive medicine. Quarterly Ethics Grand Rounds, TTUHSC, April, 2009.

Honors College Friday Lunch Discussion – Does Lubbock Really Need a Health Department, October 2011.

Healthcare Ethics and Humanities Program and University Medical Center Ethics Committee-- Assisted Reproduction: Ethical Dimensions, November 2011.

TTUHSC Women's Health Week—Sexual Transmitted Diseases, May 2012.

Honors College Friday Lunch Discussion – Ethics of Reproductive Technologies, November, 2013.

PRESENTATIONS (cont.)

Local

CALUE -- Incorporating Active Learning in the Curriculum Faculty Workshop
Panelist, January, 2014.

Comedy Defensive Reproduction. Lubbock Christian University, October 2014.

A Review of Lubbock's STD Problem and Teen Straight Talk. Lubbock's Business
Executives. July, 2016.

A Review of Lubbock's STD Problem and Teen Straight Talk. Southwest Rotary Club.
August, 2016.

Regional

The importance of the andrology lab in the treatment of infertility. Seventh Annual
South Padre Island OB/Gyn Seminar, June, 1992.

Andrology for the Ob/Gyn. Sixty-Fourth Annual Meeting of the Texas Association of
Obstetricians and Gynecologists and the Texas Section of ACOG, March, 1993.

Office andrology. Grand Rounds Department of Ob/Gyn Texas Tech University
Amarillo Regional Academic Center, April, 1993.

Office andrology. Grand Rounds Department of Ob/Gyn Texas Tech University Odessa
Regional Academic Center, January, 1994.

Up-date of andrology for the Ob/Gyn. Seventy-First Annual Meeting of the Texas
Association of Obstetricians and Gynecologists and the Texas Section of ACOG, April,
2001.

Twenty-first century andrology for the Ob/Gyn. Grand Rounds Department of Ob/Gyn
Texas Tech University Health Sciences Center, Amarillo, April, 2002.

The West Texas early pregnancy and chlamydia study. State March of Dimes Program,
Lubbock, TX August 2002.

The West Texas early pregnancy and chlamydia study. South Plains March of Dimes
Program—Board of Directors Meeting, Lubbock, TX January, 2003.

Infertility: causes, diagnosis and treatments. Midland College—Fun Friday Program,
Midland, TX, April 2004.

PRESENTATIONS (cont.)

Regional

PRESENTATIONS (cont.)

Regional

Development of new medical technologies: Collaborations between the university and industry. Keynote Address—13th Annual Resident Research, Texas Tech University Health Science Center, Odessa, TX, May 2004.

Male infertility a review of diagnosis and treatment. Dean's Brown Bag Luncheon for the Public. Texas Tech University Health Science Center, Amarillo, TX, September, 2006.

The laboratory's role in the treatment of male infertility. Ob/Gyn Grand Rounds, Texas Tech University Health Sciences Center, Amarillo, September 2006.

ART, IVF, ICSI: The alphabet soup of assisted reproduction. 23rd Annual Ob/Gyn Symposium, TTUHSC, Amarillo, April 2009.

Assisted Reproduction: Ethical Dimensions. TTUHSC Institution Wide Ethics Series, November 2011.

National

J Blanton and S.D. Prien. Cryopreservation for the future. Agriculture and Food Science in the 21st Century the Government-University Partnership at Work: A University Exhibition and Reception on Capitol Hill, Washington D.C. March 2002.

J.W. San Diego, J.W. Oliver, John Blanton, S.D. Prien. Frozen section preparation using a unique freezing technique. Industrial Exhibition—SupaChill USA, American Society for Clinical Pathology Annual Meetings, New Orleans, LA. September, 2003.

S.D. Prien, K. Flood-Shaffer, N. Bradshaw, and L. Brice. The West Texas early pregnancy and chlamydia project presented as part of the workshop on increasing access to prenatal care. Association of Maternal and Child Health Programs 2005 Annual Meeting, Washington DC, February 2005.

S.D. Prien. Early pregnancy and chlamydia project: A model for intervention. Annual Meeting of the Association of Women's Health, Obstetric and Neonatal Nurses, Los Angeles, CA, June 2008

S.D. Prien. ART, IVF, ICSI: The alphabet soup of assisted reproduction. HealthNET video lecture, Lubbock, TX April, 2010.

COMMITTEES

Departmental Committees

Research Committee (Co-Chairman), 1999-present

Education Committee, 1999-2001

Search Committee for Reproductive Endocrinologist (Chairman), 1999-2000

Informatics Committee (Chairman), 2000-2001

Departmental Chair Search Committee, 2007

Institutional Committees

Judges Committee-Student Research Day (Committee Chairman -1997-2016), 1993-2016

Judges Committee- Resident Research Day- Ob/Gyn, TTUHSC-Amarillo, 1998-1999, & 2003

Institutional Seed Grant Committee (ad hoc), 2000

Institutional Procurement Committee - Lab Supplies, 2001

Judges Committee-Resident Research Day-Ob/Gyn, TTUHSC- Odessa, 2004

Board of Regents Ad Hoc Committee on Intellectual Property Policy, 2006-2012

TTUHSC IACUC 2005-present (vice chair 2006-2008, chair 2008-present)

HSC Intellectual Property Committee, 2007-present

Honors College Advisory Council, 2007-2010, 2012-2013

Executive Council for the TTUHSC Laura W. Bush Institute for Women's Health, 2007-2009

Research Compliance Committee, 2010-present

Advisor Committee—Center for Undergraduate Research 2011-present (chair 2014-2016)

Institutional STEM Cell Committee, 2011-2016

COMMITTEES (cont.)
Institutional Committees

Director's Advisor Committee - Laura W. Bush Institute for Women's Health, 2014-2015.

Ad Hoc Committee to establish TTU Vet School, 2016.

TTUHSC representative to the National Academy of Inventors, 2016-present.

STEM Cell Committee 2016-present.

Texas Tech University Health Sciences Center President's Innovation Award, 2017

Societal Committees

College of American Pathologists-RELAB Inspector, 1994-present

American Society for Reproductive Medicine-Reproductive Laboratory Technology Professional Group Abstract Committee (Committee Chairman - 1997-2002), 1996-2002

American Society for Reproductive Medicine-Reproductive Laboratory Technology Professional Group Oral Session Moderator-1998, 2000-2002

American Society for Reproductive Medicine-Biology Special Interest Group Oral Session Moderator-2001

American Board of Bioanalysis- Certification Exam Question Committee, 1997, 2002, 2013, 2015

Reproductive Laboratory Technology Professional Group Representative to the American Society for Reproductive Medicine Research Career and Development Committee, 1999-2001.

American Society for Reproductive Medicine-Reproductive Biology Professional Group Abstract Committee (Committee Chairman), 2003

American Society for Reproductive Medicine-General Abstract Committee, 2003

American Society for Reproductive Medicine-Reproductive Biology Professional Group Oral Session Moderator, 2003, 2004

American Society for Reproductive Medicine-Assisted Reproductive Technologies Group Oral Session Moderator, 2003, 2005-2006

American Society for Reproductive Medicine, Annual Meeting -Judges Committee, Prize Poster, 2003, 2005

COMMITTEES (cont.)

Societal Committees

North American Colleges and Teachers of Agriculture - Teaching Fellow Selection Committee 2004-2005

American Society for Reproductive Medicine Abstract Review Committee 2015-2016.

Community Committees

Member—Business Services Committee, Lubbock Bioscience Initiative, 2002-2010

Member – Program Services Committee, March of Dimes, 2004-present

Board of Director- Technology Research Assistance Consortium, 2007-present

Board Member- Teen Straight Talk 2010-present (Director 2013-present)

Academic Campus

Reproductive Physiology (ANSC 3401), Dept Animal Science and Food Technology, TTU-1997-2002, 2008- present

Anatomy and Physiology (ANSC 2401), Dept Animal Science and Food Technology, TTU, 1998-2006

Advanced Reproductive Physiology (ANSC 5404), Dept Animal Science and Food Technology, TTU- 1999-2004

CLASSES COORDINATED

Academic Campus

Honors Reproductive Physiology (ANSC 3401H) Dept Animal Science and Food Technology, TTU 2003-present

Advanced Topics in Reproduction (ANSC 5309), Dept Animal and Food Sciences, TTU 2005-present

Principals of Physiology (ANSC 2306) Dept Animal and Food Sciences, TTU 2007-present

Artificial Insemination, (ANSC 4202) Dept Animal and Food Sciences, TTU 2008

Ethics in Scientific Research (ANSC 5201) Dept Animal and Food Sciences, TTU 2008-present

CLASSES COORDINATED

Academic Campus

Undergraduate Ethics in Research (ANSC 4001-H) Dept. Animal and Food Sciences, TTU 2013-present

Health Sciences Center

Medical School

3rd Year Medical Student Lectures: Menstrual Cycle, Normal and Abnormal Puberty, PMS, Isoimmunization, Dept Ob/Gyn, TTUHSC-SOM, 1999-2005

3rd Year Medical Student Lectures: Menstrual Cycle, 2006-present

2nd Year Small Group Section Coordinator, Geriatrics, TTUHSC-SOM, 2006-2009

Health Sciences Center

Graduate School of Biomedical Sciences

GSBS- Readings in Physiology, 2007-2010

LECTURES

Medical School

1st Year Physiology Small Group Lecture – Reproductive Hormone Axis, 2004-2007

1st Year Clinical Correlation Lecture – treatment of infertility, TTUHSC-SOM, 2003, 2013

2nd Year Introduction to Clinical Medicine – the menstrual cycle, TTUHSC-SOM, 2003-present

3rd Year Ob/Gyn Menstrual Cycle and Physiological Changes during Pregnancy, 1992-1999 and 2003-present.

Physiology – Endocrinology of Reproduction, 2005

Physiology – small group facilitator, 2005, 2007, 2008

Allied Health

Clinical Laboratory Medicine – the semen analysis, TTUHSC 2001-2004

LECTURES (CONT.)

GSBS

Cell Biology and Biochemistry – Hormones of reproduction clinical applications, 2000-2001

The IACUC in medical research, TTUHSC 2009-present

Other

The ABC's of Assisted Reproductive Technologies, West Texas A&M 2004 – present

The ABC's of Assisted Reproductive Technologies, Lubbock Christian University 2014

UNDERGRADUATE THESIS DIRECTOR

Joseph Martin, Honors College, TTU, 2011

GRADUATE STUDENT COMMITTEES

Phil Modisett, Ph.D., TTU, 1993 Animal Science-Reproductive Physiology

Mary Ann Papay-Harris, M.S., WTAM, 1995 Agriculture (Thesis Director)

Brent Brown, M.S., TTU, 1997, Animal Science

Nikki Johnson, M.S., TTU, 1997, Animal Science

Mike Myers, M.S., 1998, WTAM, Agriculture (DNF)

Tammy Geiger, M.S., TTU, 1998, Animal Science (Chair)

Nancy Prudhome, M.S., TTU, 1998, Animal Science (DNF)

Mohammad, Khan, Ph.D., TTU, 1998, Animal Science-Rep Physiology (DNF)

Sean Chillders, M.A., 1999, M.A. Animal Science (non-thesis)

Noah Heninger, MS., 1999, M.S., Animal Science

Dustie Johnson, M.S., 2000 Animal Science (Chair)

Heather Vartorella, M.S., 2000 Animal Science

Brent Wehner, M.S., 2001, Animal Science (Co-Chair)

Patrick Berck M.A., 2001, Animal Science (non-thesis)

Scott Parvino, M.S., 2001, Animal Science (Co-Chair: non-thesis)

Jennifer Patterson, M.S., 2002, TTU Animal Science (Chair)

Heather Vartorella, Ph.D., 2003, TTU Animal Science –Reproductive Physiology (Chair)

Pete Cotter, M.S., 2003, TTU Animal Science (Chair)

Clay Dean, M.S., 2003, TTU Animal Science (Chair: non-thesis)

Jeremy Varga, M.S., 2004, TTU Animal Science (Chair: DNF)

Dustie Johnson, Ph.D., 2005 TTU Animal Science –Reproductive Physiology (Chair)

Clay Elliott, Ph.D., 2005 TTU Animal Science

Kory Evenson, M.S. 2005, TTU Animal Science

Missy Teague, M.S. 2005, TTU Animal Science

Jessica Smith, M.S., 2006, TTU Animal Science (Chair)

GRADUATE STUDENT COMMITTEES (cont.)

Lindsay Penrose, M.S., 2006, TTU Animal Science (Chair)
Billy Zanoline, M.S., 2006, TTU Animal Science
Arturo Pacheco M.S., 2007, TTU Animal Science
Wendee Langdon, MS, 2007, TTU Animal Science (Chair)
Julie Weathers, Ph.D., 2007, TTUHSC, Physiology (Chair; DNF)
Christy Barron, MS, 2007, TTU Animal Science (Chair)
Carrie Phipps, M.S. 2008 TTU Animal Science (Chair: non-thesis)
Julie Weathers, M.S., 2008 TTU Animal Science (Chair)
Kory Evenson, Ph.D., 2008 TTU Animal Science (Chair)
Lindsay Penrose, Ph.D., 2009 TTU Animal Science (Chair)
Travis Dimler, MS., 2009 TTU Animal Science
James F. Hill, MS, 2009 TTU Animal Science (Chair: non-thesis)
Lisa Welch, MS., 2010, TTUHSC, Physiology (Chair; non-thesis)
Lauren Hightower, MS, 2010, TTUHSC, Physiology (Chair)
Matt Sellers, M.S., 2010, TTU Animal Science (Chair)
Julie Weathers, Ph.D., 2010, TTU Animal Science (Chair)
Dale Manley, M.S., 2010, TTU Animal Science (non-thesis)
Dana Henderson, M.S., 2010, TTU Animal Science (non-thesis)
Lisa Welch, Ph.D., 2010, TTU Animal Science (Chair)
Rebecca Gotti, M.S., 2010, TTU Animal Science (Chair)
Arlene Garcia, M.S., 2010, TTU Animal Science
Jennifer Linman, M.S.2010, TTU Animal Science (Chair, DNF)
Danica Jorgensen, M.S. 2011, TTU Animal Science (non-thesis)
Levi Williamson, M.S. 2011, TTU Animal Science (non-thesis)
Kelly Hutton, M.S., 2012, TTU, Animal Science
Brandi Bowen, M.S., 2012, TTU Animal Science (Chair; non-thesis)
Wendee Langdon, Ph.D., 2012, TTU Animal Science (Co-Chair)
Glenn Yeomans, M.S., 2012, TTU Animal Science (Chair)
Lauren Hubbard, M.S., 2013, TTU Animal Science (Chair)
Adam Woodard, M.S. 2013, TTU Animal Science (non-thesis)
Tangi Arant, M.S., 2014, Animal Science
Lindsay Lear, M.S. 2014, Animal Science
Sossi Iacovides, M.S., 2014, TTU Animal Science (Chair)
Cody Black, M.S., 2015, TTU Animal Science (Chair)
Cody Sultenfuss, 2015, M.S., TTU Animal Science (Chair)
Caitlin Shelinbarger, 2015, M.S., TTU Animal Science (Chair)
Katherine Mcarthur, M.S., 2015, TTU Animal Science (Co-Chair)
Cara Wessels, Ph.D., 2017, TTU Animal Science (Chair)
Jennifer Beckman, M.S., 2017, TTU Animal Science (Chair; non-thesis)
Bradley Schniers, M.S., 2017, TTU Animal Science (Chair)
Alex Branson, M.S., TTU Animal Science (Chair in progress)
Morgan Lyles, M.S., TTU Animal Science (Chair, in progress)
Dylan Easley M.S., TTU Animal Science (Chair in progress)

POST-DOCS DIRECTED

Alison Clarkson, Ph.D. 2000-2002
Michael Wassler, Ph.D. 2000-2002
Heather Goolsby, Ph.D. 2004-2005
Kory Graves-Evenson, Ph.D. 2010-2012 (Amarillo HSC)
Lindsay Penrose, Ph.D. 2009-2012

RESIDENT AND STUDENT RESEARCH AWARDS

Cindy Dunn	1993 Pritchard Prize Paper, TAOG
Mary Ann Papay	1995 Travel Award, Mid-West Reproductive Colloquium, Wichita, KS
Jerry San Diego	1995 2nd Place Prize Paper TTUHSC Research Day-Med. Stud. Division 1995 Travel Award, Mid-West Reproductive Colloquium, Wichita, KS 1996 1st Place Prize Paper TTUHSC Research Day-Med. Stud. Division 1996 Invited paper, American Medical Student Association 1997 2nd Place Prize Paper TTUHSC Research Day-Med. Stud. Division
Klyssa Kelln	2000 2 nd Place Prize Presentation, Regional Agricultural Science Fair 2000 1 st Place Prize Presentation, State Agricultural Science Fair 2000 2 nd Place Prize Presentation, National Agricultural Science Fair 2001 Runner Up, Regional Agricultural Science Fair
Dustie Johnson	2000 Outstanding Graduate Student - Master's Level Dept. Animal Science and Food Technology 2001 3 rd Place Prize Paper TTUHSC Research Day-Graduate Student Division 2003 1 st Place Dept Animal and Food Science Bob Albin Graduate Student Paper Competition 2003 2 nd Place TTU Graduate Student Association Research Day 2005 Semi-Finalist Horn Professor Graduate Achievement Award 2005 2 nd Place Dept Animal and Food Science Bob Albin Graduate Student Paper Competition
Jennifer Phy	2001 1 st Place Prize Paper TTUHSC Research Day- Resident/Post-Doc Division
Melissa Guzman	2002 3 rd Place Resident Paper - Primary Care Updates for OB/Gyn
Pete Cotter	2002 2 nd Place College of Agricultural Sciences and Natural Resources Undergraduate Research Day 2006 Royan International Research Award--paper finalist
Coalson Lacey	2003 1 st Place College of Agricultural Sciences and Natural Resources Undergraduate Research Day

RESIDENT AND STUDENT RESEARCH AWARDS (cont.)

Amanda Skillern	2004 2 nd Place Prize Paper TTUHSC Research Day--Medical Student Division
Jagjit Khairah	2004 3rd Place Prize Paper Texas Association of Obstetrician and Gynecologist Annual Resident Research Day
Heather Goolsby	2005 Royan International Research Award—paper finalist
Lindsay Penrose	2005 1 st Place TTU Graduate Student Association Research Day-Biology Division 2007 & 2008 Achievement Rewards for College Scientists-Scholar 2008 2 nd Place 7 th Annual TTU Graduate Student Association Research Day- Agricultural Sciences and Natural Resources Division
Julie Weathers	2005 Honors College Collaborative Learning Award-for research work 2006 Honors College Research Fellow 2009 1 st Place Prize Paper, Animal and Food Sciences Bob Albin Paper Competition 2009 1 st Place Poster 8 th Annual TTU Graduate Student Association Research Day -- Agricultural Sciences and Natural Resources Division 2009 1 st Annual TTU Outstanding Thesis Award
Naghma Farooqi	2006 2 nd Place Prize Paper Texas Association of Obstetrician and Gynecologist Annual Resident Research Day 2006 1 st Place Prize Paper, 1 st Annual Department of Ob/Gyn All Campus Research Day
Michael Jones	2006 2 nd Place Prize Paper, 1 st Annual Department of Ob/Gyn All Campus Research Day
Chrissy Barron	2007 3 rd Place Dept Animal and Food Science Bob Albin Graduate Student Paper Competition
Dayden Shaffer	2007 2 nd Place Prize Presentation, Regional Science Fair 2008 Naval Science Award, Regional Science Fair 2008 Army Science Award, Regional Science Fair 2008 Society for In Vitro Biology Award, Regional Science Fair
Matt Sellers	2007 AT&T-Chancellor's Fellowship 2008 3rd Place 7 th Annual TTU Graduate Student Association Research Day- Agricultural Sciences and Natural Resources Division 2009 Dissertation/Thesis Summer Research Award

RESIDENT AND STUDENT RESEARCH AWARDS (cont.)

Lisa Welch	2008 & 2009 Achievement Rewards for College Scientists-Scholar 2009 Woods Hole Marine Biology Laboratory--Frontiers in Reproduction Scholar 2009 American Society of Andrology Travel Award 2010 2 nd place award TTU Graduate Research Day 2010 3 rd place Award at the Bob Albin Paper Competition.
Joseph Martin	2009 TTU Center for Undergraduate Research--Outstanding Undergraduate Researcher Award 2009 & 2010 TTU Honors College Research Fellow
Natalie Zimmerer	2009 & 2010—Howard Hughes Medical Research Institute Scholar
Carolina Praderio	2010 District XI-Section 1 st Prize Paper
Edwin Henslee	2010 District XI-Section 1 st Prize Paper 2010 Richardson paper finalist District XI
Wendee Langdon	2011 3 rd place award TTU Graduate Research Day 2012 December Banner Barer for Graduate School, TTU
Jessica Cornelio	2011 1 st place oral presentation, TAOG 2011 1 st place poster ACOG District XI
Lauran Hubbard	2012 Outstanding poster, Agricultural Consortium of Texas Research Symposium 2013 3 rd Place Junior Graduate Student Division, TTUHSC Student Research Week
Caitlin Shelinbarger	2012 Honorable Mention Poster Division, TTU Undergraduate Research Conference 2015 - 1 st Place Prize Paper TTU GSA Research Day Agricultural Sciences and Natural Resources Category I
Cody Sultenfuss	2012 NAAB travel award (only undergraduate to receive) 2014- 3 rd Place AFS Bob Albin Paper Competition - Masters Division 2014 NAAB travel award 2015 - 3 rd Place Prize Paper TTU GSA Research Day Agricultural Sciences and Natural Resources Category I 2015 - TTU Outstanding Thesis Award in the category of Biological and Life Sciences

RESIDENT AND STUDENT RESEARCH AWARDS (cont.)

Cara Wessels	2012 Howard Hughes Medical Research Institute Scholar 2012 Who's Who Among American Students 2013 3 rd Place Undergraduate Division, Animal and Food Sciences Bob Albin Paper Competition 2013 TTU Representative for "Undergraduate Research Day at the Capital" 2014- 2 nd Place Paper TTU GSA Research Day Agricultural Sciences and Natural Resources Category 2014- 1 st Place AFS Bob Albin Paper Competition – PhD Division 2015 - 2 nd Place Prize Paper TTU GSA Research Day Agricultural Sciences and Natural Resources Category I 2016- NIH/USDA travel award 2016 – ASRM travel award
Jarmara Hice	2012 3 rd place TAOG Resident Research Competition 2013 1 st Place Resident Division, TTUHSC Student Research Week
Cody Black	2014 3 rd Place Prize Paper TTU GSA Research Day Agricultural Sciences and Natural Resources Category
Sossi Iacovides	2014 Invited Participant TTU-TEDx 2014 1 st Place Prize Paper TTU GSA Research Day Agricultural Sciences and Natural Resources Category
Rishikesh Kulkarni	2014 3 rd Place Prize Paper TTUHSC Research Week- Resident Division
Jennifer Estes	2014 1 st place poster ACOG District XI
Megan Phillips-	2015 3 rd Place Prize Paper AFS Bob Albin Paper Competition – Undergraduate Division
Katelyn Littleton --	2016 3 rd place Poster Presentation Biological Sciences Division, TTU Undergraduate Research Conference.
Dalton Tidwell-	2017 3 rd place Poster Presentation Biological Sciences Division, TTU Undergraduate Research Conference.

PATENTS

Awarded Patents

S.D. Prien, Blanton, J., Miller, M., Pond, K., Wood B., and Cassell, A. “Cryogenic preservation of biologically active material using high temperature freezing.” February 18th, 2003. U.S. Patent# 6,519,954, (associated international patents: AT311103, AU6835901, BR0111627, CA2410896, CN1434679, DE60115460, EP1311153, IL153175, MXP0201238, NZ523572).

S.D. Prien, Blanton, J., Wood B., and Cassell, A. “Method and system for preparing tissue samples for histological and pathological examination.” September 9th, 2003 U.S. Patent #6,615,592, (associated international patents: BR0116669, CA2433356, CN1685210, NZ526793)

S.D. Prien, and Johnson, D. “Improved semen collection/extension technique for use with artificial insemination and cryopreservation. March 8th, 2005. U.S. Patent #6,864,046, (associated international patents AU4537201, BR0109030, CA2491973, and NZ521676).

S.D. Prien, and Penrose. L. “Method and apparatus for gender selection based on pH.” October 13, 2015. U.S. Patent #9,157,063, (associated international patents: AU2007343701).

Pending Patents

S.D. Prien, Penrose. L. and Wessels, C. System for Determining Embryo Viability (Application PCTUS2015038665 filed June 30th, 2015)

S.D. Prien, Penrose. L. and Wessels, C. System and Method for Noninvasive Embryo Sexing (Provisional Patent filed February, 2018)

Abandoned Patents

Cassell, A., Wood, B. NS, S.D. Prien Method of preparing biological materials for cryopreservation using pre-chilled protectant US Patent Application #09/989715.

S.D. Prien “Organ preservation apparatus and methods.” US Patent Application # 10/756795.

Dehn, C., and S.D. Prien Substance and process for preventing a genetic defect from being passed onto offspring. US Patent Application #11/398332.

S.D. Prien, and Penrose. L. “Method and apparatus for gender selection.” U.S. Patent Divisional Application 14857981 filed September 18th, 2015)

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Granted

S.D. Prien. The twenty-five embryos. 2011 (TXu001734159)

S.D. Prien. The twenty-five embryos: STEM cell doomsday. 2012 (TXu001805779)

S.D. Prien. The twenty-five embryos: Casa's last round-up. 2013 (TXu001875398)