

SAMUEL D. PRIEN

CURRICULUM VITAE

PERSONAL DATA

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 Lubbock, Texas 79430 806/743-2358 Samuel.Prien@ttmc.ttuhs.edu

Home Address: 16418 N County Rd Telephone:
 Shallowater, Texas 79363 806/873-3539

Married: Cynthia Kay Collier

Children: Angela Marie
 Jennifer Nicole

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

American Society of Andrology

Texas Society for Assisted Reproductive Technology

Society for Assisted Reproductive Technology

Endocrine Society

American Association of Bioanalysis

Society for Gynecologic Investigation

North American Colleges and Teachers of Agriculture

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 Center, 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 of Research, Dept Ob/Gyn, Texas Tech University Health Sciences Center, 2003-present.

Co-Director Clinical Ob/Gyn Laboratories, Texas Tech University Health Sciences Center, 2001-present.

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

Professional Experience (cont.)

Departmental

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

Clinical Research Coordinator, Dept Ob/Gyn, Texas Tech University Health Sciences Center, 2001- 2003.

University Wide

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

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- 1996.

Other Appointments

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

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

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

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

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, Texas Tech University

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

National

- 1985 - Who's Who in Frontier Science and Technology (1st. edition).
- 2003- Teaching Fellow, North American Colleges and Teachers of Agriculture
- 2004-'05 Who's Who in America
- 2004-'05 Who's Who Among America's Teachers

Grants

Local

- 1979 - Graduate School Summer Research Assistantship (Texas Tech University) for a study into the 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 Endometrial 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 (P.I.) 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.

Grants (cont.)

Local

2000- Texas Tech University, S.D. Prien and J Blanton (Co-Directors), "Establishment of a Center for the Study of Cryobiology." \$150,000.

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 Samuel Prien, "Cryogenic Freezing of Multi-Layer Porcine Skin Tissue." \$1,000

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 (PI) and S.D. Prien (collaborator). "Extending organ viability ex-vivo using a unique oxygen delivering mobile profusion." \$145,000.

2005. Mathews and Mathews. 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-Shafer .and K.B. Porter "West Texas Early Pregnancy and Chlamydia Study."\$300,000

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.

2001 - SupaChill USA, S.D. Prien, "Evaluation of a Unique Freezing Technology." \$32,000.

Grants (cont.)

Industrial

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 (PI) and S.D. Prien (collaborator). Matching funds to ATP grant. \$125,000

Refereed 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. Prien, F. DeLeon and W. Heine: Quantitative ultramorphological evaluation of swim-up spermatozoa utilized in human in vitro fertilization and transcervical intra-uterine insemination. Archives of Andrology 17 : 223 - 230, 1986.

R. Vijayakumar, B. Ndubisi, S. 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.

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. Fertility and Sterility 54: 171-172, 1990.

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

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

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

Refereed Publications (cont.)

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. *Analytica Chimica 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. *Journal of Assisted Reproduction & Genetics* 12:180-186, 1995.

S.D. Prien, C. Dunn and R.H. Messer: Adhesion promoting properties of dyes routinely used during fertility surgeries. *Journal of Assisted Reproduction & Genetics* 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. *Artificial Cells, Blood Substitutes and Immobilization Biotechnology* 23: 469-485, 1996.

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. *Artificial Cells, Blood Substitutes and Immobilization Biotechnology* 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. *Artificial Cells, Blood Substitutes and Immobilization Biotechnology* 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. Badaeux, 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 Ob/Gyn* 4:267-271, 1998.

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.

Simoni, J., Simoni, G., Martinez-Zaguilan, R., Wesson, D., Lox, C.D., Prien, S.D., and Kumar, R.: 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. Prien, and S.A. Khan: Regulation of DNA synthesis in leydig cells obtained from neo-natal pig testes. *Domestic Animal Endocrinology* 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.

Refereed Publications (cont.)

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.

M.H. Miskell, K.B. Porter, S.D. Prien: The combination of smoking and oral contraceptive's in women's health. *J Clin Prac 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. *Jour Ani Vet Adv* 2002; 1: 76-78.

SD Prien, JL Pipkin, J San Diego, and MA Papay-Harris: The effect of conditioned medium recovered from human luteinized-granulosa cells on the development of mouse embryos in vitro. *Jour Ani 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.

HA Goolsby, HA Brady, and SD Prien. The off-Label use of altrenogest in stallions: a survey. *Jour Equine Vet Sci* 2004; 24: 72-75.

HA Goolsby, JR Blanton, P Cotter, and SD 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.

HA Goolsby, JR Blanton, and SD Prien. Preliminary comparisons of A Unique Freezing Technology to traditional cryopreservation methodology of equine spermatozoa. *Jour Equine Vet Sci* 2004; 24:314-318.

P. Z. Cotter, H.A. Goolsby, SD Prien: Preliminary evaluation of a Unique Freezing Technology for bovine spermatozoa cryopreservation. *Reprod Domest Anim* 2005;40:98-99.

Non-refereed Publications and 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.

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.

J. Maksudi, L. Pipkin, P.T. Modesitt, K.L. Nordeen, S.D. Prien, S.P. Jackson, C.R. Richardson and J.R. Clark: Effects of cotton seed products on reproduction in ewes. Texas Tech Univ. Agric. Scie. Tech. Rep. T5-283:100-101, 1990.

J.L. Pipkin, S.D. Prien, K.E. Pipkin and J.R. Clark: Effects of media, serum and co-culture on developing porcine embryos through the four cell block. Texas Tech Univ. Agric. Scie. Tech. Rep. T5-297:92-94, 1991.

J.L. Pipkin, S.D. Prien, K.E. Pipkin and J.R. Clark: Effects of media, serum and growth factor on the culture of porcine oviductal cells. Texas Tech Univ. Agric. Scie. Tech. Rep. T5-297:95-97, 1991.

S.D. Prien and J.R. Clark: Interrelationship between proteins and calcium of porcine seminal fluid and spermatozoa activity. Texas Tech Univ. Agric. Scie. Tech. Rep. T5-297:98-99, 1991.

S.D. Prien, J.L. Pipkin and J.R. Clark: Effects of various calcium sources on porcine spermatozoa activity in vitro. Texas Tech Univ. Agric. Scie. Tech. Rep. T5-297:100-103, 1991.

P.T. Modesitt, K.L. Nordeen-Tadlock, S.D. Prien, J.L. Pipkin and J.R. Clark: In vitro maturation of porcine oocytes: Effects of transport temperature and time in culture. Texas Tech Univ. Agric. Scie. Tech. Rep. T5-327:17-20, 1993.

P.T. Modesitt, K.L. Nordeen-Tadlock, S.D. Prien, and J.R. Clark: Effects of maturation medium and growth factor on the in vitro maturation and fertilization of porcine oocytes. Texas Tech Univ. Agric. Scie. Tech. Rep. T5-327:11-23, 1993.

P.T. Modesitt, K.L. Nordeen-Tadlock, S.D. Prien, D.B. Webster and J.R. Clark: In vitro maturation of porcine oocytes: Effects of follicular maturation and concentration of growth factor. Texas Tech Univ. Agric. Scie. Tech. Rep. T5-327: 24-26, 1993.

P.T. Modesitt, K.L. Nordeen-Tadlock, S.D. Prien, D.B. Webster and J.R. Clark: In vitro maturation of porcine oocytes: Effects of follicle size and sperm concentration. Texas Tech Univ. Agric. Scie. Tech. Rep. T5-327:27-29, 1993.

Non-refereed Publications and Technical (cont.)

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. Texas Tech Univ. Agric. Scie. Tech. Rep. T5-327: 30-32, 1993.

C.D. Lox, S.D. Prien, F. Tibeletti, and J. Graham: Amniotic fluid ionized calcium: Is it required for pulmonary surfactant function or secretion? TTUHSC Ob/Gyn Res Rep 1: 13-18, 1993.

B. Daugherty, S.D. Prien, and R.H. Messer: Luteal phase circulating hormone concentrations in women following in vitro fertilization. TTUHSC Ob/Gyn Res Rep 1: 19-22, 1993.

S.D. Prien, R. Pirtle, and R.H. Messer: Increases in progesterone following chorionic gonadotropin administration predict cycle outcome in patients undergoing in vitro fertilization. TTUHSC Ob/Gyn Res Rep 1: 23-26, 1993.

C. Dunn, S.D. Prien, and R.H. Messer: Adhesion promoting properties of compounds routinely used during fertility surgeries. TTUHSC Ob/Gyn Res Rep 1: 27-30, 1993.

S.D. Prien, P.T. Modesitt, M. Canez, and R. Stone: A comparison of human and porcine luteinized granulosa cell cultures as an in vitro model of potential toxicants to human reproduction using EtOH. TTUHSC Ob/Gyn Res Rep 1: 31-34, 1993.

S.D. Prien, J. San Diego, V. Sott, R. Pirtle, and P.T. Modesitt: Establishment of a new bioassay for toxicology studies: comparisons to the existing porcine model. Texas Tech Univ. Agric. Scie. Tech. Rep. T-5-342: 75-77, 1994.

J.B. Black, P.Z. Cotter, and S.D. Prien: Can transport times for donor organs be extended? Texas Tech Univ. Agric. Scie. Tech. Rep. (accepted).

P.Z. Cotter, H. Vartorella, L. Penrose and S.D. Prien: Evaluation of the usefulness of a new unique freezing technology in improving the recovery of bovine semen following cryopreservation. Texas Tech Univ. Agric. Scie. Tech. Rep. (accepted).

J.W. San Diego, J.W. Oliver, J. Blanton, S.D. Prien: Frozen section preparation using a unique freezing technique. Texas Tech Univ. Agric. Scie. Tech. Rep. (accepted).

J.D. Patterson and S.D. Prien: The Use of a Unique Freezing Technique in the Freezing of Bovine Embryos. Texas Tech Univ. Agric. Scie. Tech. Rep. (accepted).

H.A. Vartorella, S.D. Prien, J.R. Blanton, and P. Cotter: Preliminary Study: a comparison study of a unique freezing technique (UFT) to liquid nitrogen techniques on stallion spermatozoa. www.afs.ttu.edu/info/ASFT_reports/Research_Reports/Prienlabreport_5.doc, 2003.

D.L. Johnson and S.D. Prien: A novel collection technique for the improvement of semen quality. www.afs.ttu.edu/info/ASFT_reports/Research_Reports/Prienlabreport_7.doc, 2003.

D.L. Johnson and S.D. Prien: New technique improves semen quality: Individuals intolerant to traditional methods have greatest improvement. www.afs.ttu.edu/info/ASFT_reports/Research_Reports/Prienlabreport_8.doc, 2003.

D.L. Johnson and S.D. Prien: New semen collection device improves semen quality in human donors. www.afs.ttu.edu/info/ASFT_reports/Research_Reports/Prienlabreport_9.doc, 2003.

ABSTRACTS

Local

S.D. Prien "The Effects of Decreasing Salinity Levels on Plants Growth in a Saline Environment" Sigma Xi Mini-Conference, Texas Tech University, Lubbock, Texas, April 1980.

Boyd S.C., Prien S.D. and Canez M.S. "Timing of human chorionic gonadotropin in clomiphene citrate-stimulated cycles." TTUHSC Research Day, April, 1995.

J. San Diego, R Pirtle, V. Scott, R.H. Messer, and S.D. Prien. "Use of Human Luteinized-Granulosa Cells in Culture to Detect Toxins to Human Reproduction." TTUHSC Research Day, April, 1995.

San Diego J.W., Castillo S., Simoni J., Papay-Harris M.A., and Prien S.D. "Cell-Free Hemoglobin is Detrimental to Embryo Development In Vitro." TTUHSC Research Day, February, 1995.

San Diego J.W., Papay-Harris M.A., Castillo S., and Prien S.D. "Factors Potentially Effecting Embryo Development During Co-Culture with Human Luteinized-Granulosa Cells." TTUHSC Research Day, February, 1996.

Badeaux D., Lox C.D., San Diego J.W., Messer R.H. and Prien S.D. "Evaluation of Toxins to Human Female Reproduction using Human Luteinized-Granulosa Cells In Culture. TTUHSC Research Day, April, 1997.

San Diego J.W., Simoni J., and Prien S.D. "Cell-Free Hemoglobin Inhibits Embryo Development In Vitro." TTUHSC Research Day, April, 1997.

Doan, D., Cañez, M.S., Messer, R.H., Prien, S.D.: Is the Relationship Between Progesterone and IVF Outcome Different Between Humegon and Pergonal Stimulated Cycles? TTUHSC Research Day, April, 1998.

Miller A., Yancey L., Simoni J., Cañez M.S., and Prien S.D.: Effects of short-term Embryo Exposure to Hemoglobin and Other Components of Ruptured Erythrocytes. TTUHSC Research Day, April, 1998.

Yancey L., Miller A., Simoni J., Cañez M.S., and Prien, S.D.: Stromal Breakdown Products of Erythrocytes have Toxic Effects on the Development of Embryos. TTUHSC Research Day, April 1998.

D. Johnson and S.D. Prien: A Novel Collection Technique for Improvement of Semen Quality. TTUHSC Research Day, March, 2001.

J. Phy, D Stocco and S.D. Prien: Differences in StAR protein expression from the luteinizing-granulosa cells of IVF-ET patients: Implications for cycle outcomes TTUHSC Research Day, March, 2001.

D. Johnson and S. Prien: A Novel Collection Technique for Improvement of Semen Quality. 17th Annual All-University Conference on the Advancement of Women in Higher Education. April, 2001.

Abstracts (cont.)

Local

P.Z. Cotter and S.D. Prien. Evaluation of the Usefulness of a New Unique Freezing Tecnology in Improving the Recovery Rates of Bovine Semen Following Cryopreservation. Texas Tech University Undergraduate Student Research, April 2002.

J.B. Black, P.Z. Cotter and S.D. Prien Can Transport Times for Donor Organs be Extended? Texas Tech University Undergraduate Student Research, April 2002.

S.D. Prien, D. Contreras and J. Blanton: Usefulness of a Unique Freezing Technology in the Cryopreservation of Medically Important Cells: Preliminary findings. 3rd Annual Southwest Cancer Center Research Symposium, April, 2002.

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. 3rd Annual Southwest Cancer Center Research Symposium, April, 2002.

Cary Bramwell, Lauren Andrews, Lindsay Penrose, and Samuel D. Prien: Can a Unique Freezing Technology Improve the Morphology and Physiology of Porcine Ovarian Tissue Following Cryopreservation? Texas Tech University Undergraduate Student Research, March 2003.

Coalson W. Lacey, Lindsay Penrose and Samuel Prien: Cryogenic Freezing of Multi-Layer Porcine Skin Tissue. Texas Tech University Undergraduate Student Research, March 2003.

James B. Black, Erin Akins, and Samuel Prien: Development of a New Technology for Clinical Diagnosis. Texas Tech University Undergraduate Student Research, March 2003.

Dustie Johnson and Samuel Prien: Improving Semen Quality using a Modified Collection Technique. Texas Tech University GPSGA Student Research, March 2003.

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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, 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, S. 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.

Abstracts (cont.)

National

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.

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, S. 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, S. 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. Prien, 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. 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. 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)

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

Abstracts (cont.)

National

S Prien, K Flood-Shaffer, A Johnson-Rubio, E Rodriguez, K Porter, 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 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 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. 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. Prien, 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, S. 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, S. 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.

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, Colorado, 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, 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, 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, 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. Prien, and J. Blanton, Efficacy and economic value of estrous synchronization ADSA-ASAS-CSAS Joint Meeting, Cincinnati, OH, July, 2005

A. Skillern, S. Prien, 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.

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.

Presentations (cont.)

Local

"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.

"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.

Presentations (cont.)

Local

“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.

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

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

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.

“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.

Presentations (cont.)

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.

Committees

Departmental Committees

Research Committee (Co-Chairman), 1999 – present

Education Committee, 1999 – 2001

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

Infomatics Committee (Chairman), 2000-2001

Institutional Committees

Judges Committee-Student Research Day (Committee Chairman -1997-2005), 1993-present.

Judges Committee- Resident Research Day- Ob/Gyn, TTUHSC- Amarillo, 1998-'99, & 2003.

Institutional Seed Grant Committee (ad hoc), 2000.

Institutional Procurement Committee – Lab Supplies 2001.

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

TTUHSC IACUC 2005-present (vice chair 2006-present).

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

Committees

Societal Committees

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.

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

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

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

Community Committees

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

Member-- Communities Caring for At Risk Teens Committee, 2003 – present

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

Classes Coordinated

Main Campus

Reproductive Physiology (ASFT 3401H), Dept Animal and Food Sciences, TTU-
2003-present.

Anatomy and Physiology (ASFT 2401), Dept Animal Science and Food Technology, TTU-
1998-present.

Advanced Reproductive Physiology (ASFT 5401), Dept Animal Science and Food Technology,
TTU- 1999-2004.

Reproductive Physiology (ASFT 3401), Dept Animal Science and Food Technology, TTU-
1997-2002.

Medical School

3rd Year Medical Student Lectures: Menstrual Cycle, Normal and Abnormal Puberty, PMS, Isoimmunization, Dept Ob/Gyn, TTUHSC-SOM, 1999-2003.

2nd Year Small Group Section Coordinator, Geriatrics, TTUHSC-SOM, 2002

Lectures

Medical School

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

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

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

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

Physiology – Endocrinology of Reproduction, 2005

Allied Health

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

Graduate Student Committees

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

Mary Ann Papay-Harris, M.S., WTAM, 1995 Agriculture

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 Childers, 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)

Lindsay Penrose, M.S., 2006, TTU Animal Science (Chair)

Kory Evenson, Ph.D., TTU Animal Science (in progress)

Graduate Student Committees (cont.)

Wendee Langdon, MS, TTU Animal Science (Chair; in progress)
 Christy Barron, MS, TTU Animal Science (Chair; in progress)
 Julie Weathers, Ph.D., TTUHSC, Physiology (Chair; in progress)
 Lisa Welch, Ph.D., TTUHSC, Physiology (Chair; in progress)
 Lindsay Penrose, Ph.D., TTU Animal Science (Chair; in progress)
 Lauren Hightower, MS, TTUHSC, Physiology (Chair; in progress)

Post-Docs Directed

Alison Clarkson, Ph.D. 2000-2002

Michael Wassler, Ph.D. 2000-2002

Heather Goolsby, Ph.D. 2004-2005

Student Research Awards

Cindy Dunn, M.D.- 1993 Pritchard Prize Paper, TAOG

Mary Ann Papay, M.S.- 1995 Travel Award, Mid-West Reproductive Colloquium, Wichita, KS

Mr. 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

Ms. Klyssa Kelln- 2000 2nd Place Prize Presentation, Regional Agricultural Science Fair
 2000 1st Place Prize Presentation, State Agricultural Science Fair
 2000 2nd Place Prize Presentation, National Agricultural Science Fair
 2001 Runner Up, Regional Agricultural Science Fair

Dustie Johnson, M.S.- 2000 Outstanding Graduate Student - Master's Level Dept. Animal Science and Food Technology
 2001 3rd Place Prize Paper TTUHSC Research Day-Graduate Student Division
 2003 1st Place Dept Animal and Food Science Bob Albin Graduate Student Paper Competition
 2003 2nd Place TTU Graduate Student Association Research Day
 2005 Semi-Finalist Horn Professor Graduate Achievement Award
 2005 2nd Place Dept Animal and Food Science Bob Albin Graduate Student Paper Competition

Jennifer Phy, D.O.- 2001 1st Place Prize Paper TTUHSC Research Day- Resident/Post-Doc Division

Melissa Guzman, M.D.- 2002 3rd Place Resident Paper - Primary Care Updates for OB/Gyn

Pete Cotter- 2002 2nd Place College of Agricultural Sciences and Natural Resources Undergraduate Research Day
 2006 Royan International Research Award—paper finalist

Coalson Lacey- 2003 1st Place College of Agricultural Sciences and Natural Resources Undergraduate Research Day

Student Research Awards (cont.)

Amanda Skillern-	2004 2 nd Place Prize Paper TTUHSC Research Day --Medical Student Division
Jagjit Khairah, D.O.-	2004 3rd Place Prize Paper Texas Association of Obstetrician and Gynecologist Annual Resident Research Day
Heather Goolsby, Ph.D.-	2005 Royan International Research Award—paper finalist
Lindsay Penrose -	2005 1 st Place Place TTU Graduate Student Association Research Day – Biology Division
Julie Weathers-	2005 Honors College Collaborative Learning Award – for research work
Naghma Farooqi -	2006 2nd 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 2nd Place Prize Paper, 1 st Annual Department of Ob/Gyn All Campus Research Day

Patents

Granted

S.D. Prien, J. Blanton, M. Miller, K. Pond, B. Wood and A Cassell. Cryogenic preservation of biologically active material using high temperature freezing. Published February 2003 (patent # 6,519,954)

S.D. Prien, J. Blanton B. Wood and A Cassell. Method and system for preparing tissue samples for histological and pathological examination. Published September 2003 (patent #6,615,592)

S.D. Prien and D. Johnson. Improved Semen Collection/Extension Technique for Use With Artificial Insemination and Cryopreservation. Published March 2005 (patent #6864046)

Filed and Pending

S.D. Prien. Modification of Cryoprotectant—precooling. Provisional Patent Filed December -- 2001.

S.D. Prien, J. Blanton, M. Miller, K. Pond, B. Wood and A Cassell. Cryogenic preservation of biological material by circulating a cooling fluid. Filed August -- 2003.

S.D. Prien,. Organ preservation apparatus and methods. Filed January – 2004.

C. Dehn and S.D. Prien – A noval gamete mediated control of HYPP – 2006

S.D. Prien. Ric Lavennder, D. Johnson – A noval specimen collection container --2006

OTHER

First successful Gamete Intra-Fallopian Transfer (G.I.F.T.) procedure at TTUHSC, February, 1989.

First successful In Vitro Fertilization (IVF) procedure at TTUHSC, October, 1989.

Organization of workshop entitled: "Understanding Infertility: a workshop for infertile couples," July 1990.

Editor, First Annual Department of Ob/Gyn Research Report 1993.